

Question: By the end of this school year, how many years will you have been teaching altogether
Location: TQG-01 (PTBG01)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	411	8.3	0.0	1.2	19.9	22.0	0.0	8.0	10.0	14.0	19.0	25.0	33.0	35.0	40.0
Italy	279	252	8.4	0.0	1.8	23.1	23.0	1.0	9.0	11.0	17.0	24.0	30.0	33.0	36.0	41.0
Lebanon	257	220	0.5	0.0	10.1	24.4	25.0	4.0	7.0	9.0	15.0	23.0	35.0	42.0	42.0	49.0
Norway	161	148	7.0	0.0	1.8	18.1	8.0	1.0	3.0	5.0	9.0	15.0	27.0	36.0	39.0	44.0
Portugal	149	147	1.0	0.0	0.6	24.2	20.0	6.0	10.0	14.0	19.0	25.0	30.0	35.0	38.0	44.0
Russian Federation	207	201	0.4	0.0	1.7	26.4	22.0	3.0	8.0	13.0	20.0	26.0	33.0	41.0	43.0	48.0
Slovenia	66	64	1.0	0.0	2.2	21.2	7.0	3.0	7.0	8.0	15.0	22.0	29.0	32.0	35.0	38.0
Sweden	217	202	3.6	0.0	2.5	16.4	10.0	1.0	3.0	5.0	9.0	14.0	25.0	32.0	35.0	42.0
United States	217	158	28.0	0.0	0.2	14.2	6.0	1.0	2.0	3.0	7.0	13.0	20.0	29.0	30.0	41.0
International Avg (n=9)	2003	1803	6.5	0.0	2.5	20.9	15.9	2.2	6.3	8.7	13.9	20.1	28.2	34.8	37.0	43.0

Question: Are you female or male
Location: TQG-02 (PTBG02)

Country	Sample	Valid N	1.Female %	2.Male %	Not Administered %	Not Applicable %	Omitted %	1.Female Mean	2.Male Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	413	38.5	61.5	8.3	0.0	0.5	375.1	375.4	348.5	.	381.1
Italy	279	254	56.7	43.3	8.4	0.0	1.4	376.9	382.7	302.6	.	445.5
Lebanon	257	250	20.2	79.8	0.5	0.0	1.3	407.2	410.8	402.6	.	419.6
Norway	161	151	23.5	76.5	7.0	0.0	0.0	509.4	503.5	538.9	.	.
Portugal	149	148	55.5	44.5	1.0	0.0	0.0	466.4	467.6	435.5	.	.
Russian Federation	207	205	77.0	23.0	0.4	0.0	0.5	507.2	505.9	449.7	.	700.4
Slovenia	66	65	31.0	69.0	1.0	0.0	0.0	516.5	538.1	495.8	.	.
Sweden	217	208	27.4	72.6	3.6	0.0	0.4	463.7	452.1	445.1	.	384.3
United States	217	157	30.5	69.5	28.0	0.0	0.6	420.4	450.9	425.1	.	504.4
International Avg (n=9)	2003	1851	40.0	60.0	6.5	0.0	0.5	449.2	454.1	427.1	.	472.5

Question: How old are you
Location: TQG-03 (PTBG03)

Country	Sample	Valid N	1.Under 25 %	2.25-29 %	3.30-39 %	4.40-49 %	5.50-59 %	6.60 or more %	Not Administered %	Not Applicable %	Omitted %
France	450	414	0.0	2.5	24.3	49.2	20.0	4.0	8.3	0.0	0.4
Italy	279	255	0.0	1.9	4.3	33.2	46.1	14.5	8.4	0.0	0.7
Lebanon	257	249	0.0	3.3	27.1	27.6	18.5	23.5	0.5	0.0	1.3
Norway	161	151	0.0	6.5	21.5	29.3	20.8	21.9	7.0	0.0	0.0
Portugal	149	148	0.0	0.0	11.6	42.7	38.9	6.8	1.0	0.0	0.0
Russian Federation	207	204	0.7	2.4	12.7	24.6	41.8	17.7	0.4	0.0	1.4
Slovenia	66	65	0.0	0.9	22.4	31.3	37.4	8.0	1.0	0.0	0.0
Sweden	217	208	0.0	7.2	22.9	27.9	27.8	14.2	3.6	0.0	0.4
United States	217	158	1.3	17.6	20.8	30.1	21.4	8.8	28.0	0.0	0.4
International Avg (n=9)	2003	1852	0.2	4.7	18.6	32.9	30.3	13.3	6.5	0.0	0.5

Question: How old are you
Location: TQG-03 (PTBG03)

Country	Sample	Valid N	1.Under 25 Mean	2.25-29 Mean	3.30-39 Mean	4.40-49 Mean	5.50-59 Mean	6.60 or more Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	414	.	350.6	365.6	381.7	373.2	381.6	348.5	.	374.1
Italy	279	255	.	283.8	323.3	390.6	378.1	393.9	302.6	.	385.1
Lebanon	257	249	.	388.0	416.3	404.9	425.0	401.7	402.6	.	394.1
Norway	161	151	.	506.0	507.7	502.5	500.3	509.3	538.9	.	.
Portugal	149	148	.	.	456.5	458.3	478.5	472.5	435.5	.	.
Russian Federation	207	204	339.1	494.7	465.0	519.9	509.5	518.2	449.7	.	601.9
Slovenia	66	65	.	551.6	549.2	512.3	534.7	539.1	495.8	.	.
Sweden	217	208	.	449.3	455.3	452.1	472.7	430.4	445.1	.	384.3
United States	217	158	337.4	378.0	460.8	439.9	464.3	489.9	425.1	.	516.1
International Avg (n=9)	2003	1852	338.2	425.3	444.4	451.3	459.6	459.6	427.1	.	442.6

Question: What is the highest level of formal education you have completed
Location: TQG-04 (PTBG04)

Country	Sample	Valid N	1.Did not comple te %	2.Short- cycle tertiary education %	3.Bachelor's or equivalent %	4.Master's or equivalent %	5.Doctor's or equivalent %	Not Admini stered %	Not Applicable %	Omitted %
France	450	414	0.0	0.3	19.1	68.5	12.1	8.3	0.0	0.3
Italy	279	252	0.0	0.0	85.8	7.6	6.6	8.4	0.0	2.0
Lebanon	257	240	4.8	2.2	21.7	67.6	3.7	4.1	0.0	1.9
Norway	161	151	0.0	0.0	14.4	80.6	5.0	7.0	0.0	0.0
Portugal	149	147	0.0	1.1	72.1	25.3	1.5	1.0	0.0	0.3
Russian Federation	207	205	0.0	0.0	21.5	74.8	3.8	0.4	0.0	0.5
Slovenia	66	65	0.0	0.0	0.0	89.6	10.4	1.0	0.0	0.0
Sweden	217	206	2.0	0.0	24.6	63.6	9.8	3.6	0.0	1.1
United States	217	158	0.0	0.0	23.4	70.1	6.5	28.0	0.0	0.4
International Avg (n=9)	2003	1838	0.8	0.4	31.4	60.9	6.6	6.9	0.0	0.7

Question: What is the highest level of formal education you have completed
Location: TQG-04 (PTBG04)

Country	Sample	Valid N	1.Did not comple te Mean	2.Shor t-cycl e tertia ry educat ion Mean	3.Bach elor's or equiva lent Mean	4.Mast er's or equiva lent Mean	5.Doct or or equiva lent Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	414	.	413.4	377.0	374.3	376.6	348.5	.	392.8
Italy	279	252	.	.	383.9	326.2	403.9	302.6	.	362.9
Lebanon	257	240	400.2	414.7	423.2	405.2	418.1	424.7	.	410.2
Norway	161	151	.	.	496.3	506.4	504.4	538.9	.	.
Portugal	149	147	.	454.0	467.3	463.0	518.6	435.5	.	478.7
Russian Federation	207	205	.	.	494.5	507.3	569.4	449.7	.	700.4
Slovenia	66	65	.	.	.	529.0	552.4	495.8	.	.
Sweden	217	206	316.2	.	455.6	462.0	440.4	445.1	.	415.7
United States	217	158	.	.	423.4	446.8	452.5	425.1	.	516.1
International Avg (n=9)	2003	1838	358.2	427.3	440.2	446.7	470.7	429.5	.	468.1

Question: During your <post-secondary> education, what was your major or main area(s) of study. Mathematics
Location: TQG-05a (PTBG05A)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	414	62.2	37.5	8.3	0.3	0.9	374.8	375.1	348.5	413.4	397.8
Italy	279	255	81.8	18.2	8.4	0.0	0.9	380.7	380.3	302.6	.	362.6
Lebanon	257	244	49.9	48.0	0.5	2.1	3.6	408.7	413.1	402.6	414.7	390.8
Norway	161	151	96.6	3.4	7.0	0.0	0.0	506.5	459.3	538.9	.	.
Portugal	149	147	66.4	32.5	1.0	1.1	0.7	468.7	462.2	435.5	454.0	543.4
Russian Federation	207	205	51.3	48.7	0.4	0.0	0.5	507.0	506.7	449.7	.	700.4
Slovenia	66	65	14.4	85.6	1.0	0.0	0.0	531.2	531.4	495.8	.	.
Sweden	217	203	89.8	10.2	3.6	0.0	2.6	456.6	453.5	445.1	.	408.7
United States	217	157	27.0	73.0	28.0	0.0	1.1	430.1	446.1	425.1	.	462.6
International Avg (n=9)	2003	1841	59.9	39.7	6.5	0.4	1.1	451.6	447.5	427.1	427.3	466.6

Question: During your <post-secondary> education, what was your major or main area(s) of study. Physics
Location: TQG-05b (PTBG05B)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	415	95.7	4.0	8.3	0.3	0.1	374.7	385.4	348.5	413.4	360.1
Italy	279	255	75.2	24.8	8.4	0.0	0.9	380.7	380.4	302.6	.	362.6
Lebanon	257	244	95.1	2.8	1.3	2.2	3.0	412.7	378.1	381.3	414.7	370.0
Norway	161	151	97.4	2.6	7.0	0.0	0.0	506.3	450.5	538.9	.	.
Portugal	149	148	96.8	2.2	1.0	1.1	0.0	467.5	446.1	435.5	454.0	.
Russian Federation	207	205	98.1	1.9	0.4	0.0	0.5	507.6	470.5	449.7	.	700.4
Slovenia	66	65	85.0	15.0	1.0	0.0	0.0	528.8	546.3	495.8	.	.
Sweden	217	205	91.9	8.1	3.6	0.0	1.4	458.1	439.4	445.1	.	352.2
United States	217	157	54.1	45.9	28.0	0.0	1.1	435.6	449.0	425.1	.	462.6
International Avg (n=9)	2003	1845	87.7	11.9	6.5	0.4	0.8	452.4	438.4	424.7	427.3	434.7

Question: During your <post-secondary> education, what was your major or main area(s) of study. Biology
Location: TQG-05c (PTBG05C)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	414	6.3	93.4	8.3	0.3	0.9	351.1	376.5	348.5	413.4	397.8
Italy	279	255	2.3	97.7	8.4	0.0	0.9	416.5	379.8	302.6	.	362.6
Lebanon	257	244	5.6	92.3	0.5	2.1	3.6	418.7	410.4	402.6	414.7	390.8
Norway	161	151	2.3	97.7	7.0	0.0	0.0	466.9	505.8	538.9	.	.
Portugal	149	147	1.3	97.6	1.0	1.1	0.7	451.8	466.7	435.5	454.0	543.4
Russian Federation	207	205	0.8	99.2	0.4	0.0	0.5	422.3	507.5	449.7	.	700.4
Slovenia	66	65	0.0	100.0	1.0	0.0	0.0	.	531.4	495.8	.	.
Sweden	217	203	3.2	96.8	3.6	0.0	2.2	419.6	458.1	445.1	.	377.5
United States	217	157	13.0	87.0	28.0	0.0	1.1	440.9	441.9	425.1	.	462.6
International Avg (n=9)	2003	1841	3.9	95.7	6.5	0.4	1.1	423.5	453.1	427.1	427.3	462.1

Question: During your <post-secondary> education, what was your major or main area(s) of study. Chemistry
Location: TQG-05d (PTBG05D)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	415	91.7	8.0	8.3	0.3	0.1	373.0	400.5	348.5	413.4	360.1
Italy	279	255	3.9	96.1	8.4	0.0	0.9	350.4	381.8	302.6	.	362.6
Lebanon	257	243	22.1	75.7	0.5	2.2	3.9	410.0	410.9	402.6	414.7	395.2
Norway	161	151	22.7	77.3	7.0	0.0	0.0	508.0	504.0	538.9	.	.
Portugal	149	148	89.4	9.6	1.0	1.1	0.0	467.0	467.2	435.5	454.0	.
Russian Federation	207	205	3.2	96.8	0.4	0.0	0.5	480.1	507.8	449.7	.	700.4
Slovenia	66	65	3.3	96.7	1.0	0.0	0.0	520.4	531.8	495.8	.	.
Sweden	217	203	15.0	85.0	3.6	0.0	2.2	467.8	453.8	445.1	.	419.8
United States	217	157	22.6	77.4	28.0	0.0	1.1	426.8	446.1	425.1	.	462.6
International Avg (n=9)	2003	1842	30.4	69.2	6.5	0.4	1.0	444.8	456.0	427.1	427.3	450.1

Question: During your <post-secondary> education, what was your major or main area(s) of study. <Earth Science>
Location: TQG-05e (PTBG05E)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	415	3.0	96.6	8.3	0.3	0.1	367.7	375.4	348.5	413.4	360.1
Italy	279	255	2.4	97.6	8.4	0.0	0.9	324.8	382.0	302.6	.	362.6
Lebanon	257	243	5.0	92.8	0.5	2.2	3.9	431.4	409.6	402.6	414.7	395.2
Norway	161	151	13.4	86.6	7.0	0.0	0.0	510.3	504.0	538.9	.	.
Portugal	149	147	4.4	94.5	1.0	1.1	0.2	443.1	468.3	435.5	454.0	413.3
Russian Federation	207	205	0.0	100.0	0.4	0.0	0.5	.	506.9	449.7	.	700.4
Slovenia	66	65	0.0	100.0	1.0	0.0	0.0	.	531.4	495.8	.	.
Sweden	217	203	4.8	95.2	3.6	0.0	2.2	427.5	457.3	445.1	.	419.8
United States	217	157	6.0	94.0	28.0	0.0	1.1	448.0	441.4	425.1	.	462.6
International Avg (n=9)	2003	1841	4.3	95.3	6.5	0.4	1.0	421.8	452.9	427.1	427.3	444.9

Question: During your <post-secondary> education, what was your major or main area(s) of study. Engineering
Location: TQG-05f (PTBG05F)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	415	3.1	96.6	8.3	0.3	0.1	408.7	374.1	348.5	413.4	360.1
Italy	279	254	19.6	80.4	8.4	0.0	1.4	354.8	387.2	302.6	.	356.0
Lebanon	257	243	6.8	91.0	0.5	2.2	3.9	402.0	411.4	402.6	414.7	395.2
Norway	161	151	16.2	83.8	7.0	0.0	0.0	475.4	510.6	538.9	.	.
Portugal	149	147	20.4	78.5	1.0	1.1	0.2	471.7	466.0	435.5	454.0	413.3
Russian Federation	207	205	23.8	76.2	0.4	0.0	0.5	526.9	500.6	449.7	.	700.4
Slovenia	66	65	8.6	91.4	1.0	0.0	0.0	550.7	529.6	495.8	.	.
Sweden	217	203	24.5	75.5	3.6	0.0	2.2	438.7	461.4	445.1	.	419.8
United States	217	158	17.6	82.4	28.0	0.0	0.4	452.4	439.4	425.1	.	516.1
International Avg (n=9)	2003	1841	15.6	84.0	6.5	0.4	1.0	453.5	453.4	427.1	427.3	451.6

Question: During your <post-secondary> education, what was your major or main area(s) of study. Education- Mathematics
Location: TQG-05g (PTBG05G)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	414	1.4	98.3	8.3	0.3	0.4	358.5	375.4	348.5	413.4	373.1
Italy	279	255	42.6	57.4	8.4	0.0	0.9	365.6	391.8	302.6	.	362.6
Lebanon	257	241	15.5	82.3	0.5	2.2	4.4	400.8	412.2	402.6	414.7	403.7
Norway	161	151	10.2	89.8	7.0	0.0	0.0	498.9	505.6	538.9	.	.
Portugal	149	147	2.6	96.3	1.0	1.1	0.4	425.9	468.3	435.5	454.0	436.8
Russian Federation	207	203	27.7	72.3	0.4	0.0	1.5	513.6	503.4	449.7	.	606.4
Slovenia	66	65	6.4	93.6	1.0	0.0	0.0	568.8	528.8	495.8	.	.
Sweden	217	204	74.6	25.4	3.6	0.0	2.0	457.3	451.6	445.1	.	415.1
United States	217	157	12.8	87.2	28.0	0.0	1.1	393.5	448.8	425.1	.	462.6
International Avg (n=9)	2003	1837	21.5	78.1	6.5	0.4	1.2	442.5	454.0	427.1	427.3	437.2

Question: During your <post-secondary> education, what was your major or main area(s) of study. Education- Physics
Location: TQG-05h (PTBG05H)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	415	24.8	74.8	8.3	0.3	0.1	370.7	376.7	348.5	413.4	360.1
Italy	279	255	38.8	61.2	8.4	0.0	0.9	370.1	387.3	302.6	.	362.6
Lebanon	257	242	51.3	46.6	0.5	2.2	4.2	403.8	418.6	402.6	414.7	393.3
Norway	161	151	10.6	89.4	7.0	0.0	0.0	502.7	505.1	538.9	.	.
Portugal	149	148	42.4	56.5	1.0	1.1	0.0	469.6	465.2	435.5	454.0	.
Russian Federation	207	205	64.5	35.5	0.4	0.0	0.5	514.1	493.7	449.7	.	700.4
Slovenia	66	65	55.2	44.8	1.0	0.0	0.0	533.7	528.6	495.8	.	.
Sweden	217	202	76.2	23.8	3.6	0.0	2.6	461.5	440.0	445.1	.	405.5
United States	217	157	30.0	70.0	28.0	0.0	1.1	447.0	439.5	425.1	.	462.6
International Avg (n=9)	2003	1840	43.8	55.8	6.5	0.4	1.0	452.6	450.5	427.1	427.3	447.4

Question: During your <post-secondary> education, what was your major or main area(s) of study. Education- Science
Location: TQG-05i (PTBG05I)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	415	13.2	86.5	8.3	0.3	0.1	362.8	377.1	348.5	413.4	360.1
Italy	279	255	5.0	95.0	8.4	0.0	0.9	328.7	383.3	302.6	.	362.6
Lebanon	257	241	7.5	90.3	0.5	2.2	4.7	395.2	411.8	402.6	414.7	402.6
Norway	161	150	2.1	97.9	7.0	0.0	0.7	461.8	506.2	538.9	.	450.2
Portugal	149	148	30.6	68.3	1.0	1.1	0.0	460.0	470.2	435.5	454.0	.
Russian Federation	207	204	21.4	78.6	0.4	0.0	1.0	515.2	504.1	449.7	.	638.5
Slovenia	66	65	2.0	98.0	1.0	0.0	0.0	546.8	531.1	495.8	.	.
Sweden	217	203	4.8	95.2	3.6	0.0	2.2	435.0	456.9	445.1	.	419.8
United States	217	157	25.1	74.9	28.0	0.0	1.1	423.9	447.8	425.1	.	462.6
International Avg (n=9)	2003	1838	12.4	87.2	6.5	0.4	1.2	436.6	454.3	427.1	427.3	442.3

Question: During your <post-secondary> education, what was your major or main area(s) of study. Education- General
Location: TQG-05j (PTBG05J)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	415	7.6	92.1	8.3	0.3	0.1	364.3	376.1	348.5	413.4	360.1
Italy	279	255	7.6	92.4	8.4	0.0	0.9	358.4	382.4	302.6	.	362.6
Lebanon	257	240	15.4	82.4	0.5	2.2	5.2	415.7	410.1	402.6	414.7	395.0
Norway	161	150	46.1	53.9	7.0	0.0	0.8	490.4	517.3	538.9	.	504.5
Portugal	149	148	35.6	63.3	1.0	1.1	0.0	462.2	469.8	435.5	454.0	.
Russian Federation	207	205	51.9	48.1	0.4	0.0	0.5	509.1	504.4	449.7	.	700.4
Slovenia	66	65	1.3	98.7	1.0	0.0	0.0	623.0	530.2	495.8	.	.
Sweden	217	201	22.9	77.1	3.6	0.0	2.9	466.6	452.9	445.1	.	423.3
United States	217	156	14.1	85.9	28.0	0.0	1.5	389.0	450.1	425.1	.	473.6
International Avg (n=9)	2003	1835	22.5	77.1	6.5	0.4	1.3	453.2	454.8	427.1	427.3	459.9

Question: During your <post-secondary> education, what was your major or main area(s) of study. Other
Location: TQG-05k (PTBG05K)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	414	9.7	90.0	8.3	0.3	0.3	372.6	375.4	348.5	413.4	392.8
Italy	279	236	12.1	87.9	8.4	0.0	9.4	368.2	388.8	302.6	.	329.0
Lebanon	257	233	12.2	85.6	0.5	2.3	8.3	420.8	411.9	402.6	414.7	379.2
Norway	161	150	33.7	66.3	7.0	0.0	1.1	506.4	505.4	538.9	.	428.8
Portugal	149	127	15.7	83.1	1.0	1.2	12.3	444.4	467.0	435.5	454.0	492.5
Russian Federation	207	202	16.0	84.0	0.4	0.0	2.0	484.5	510.4	449.7	.	580.8
Slovenia	66	64	3.8	96.2	1.0	0.0	3.0	571.2	530.8	495.8	.	499.8
Sweden	217	199	19.8	80.2	3.6	0.0	4.4	470.0	452.1	445.1	.	441.7
United States	217	157	19.2	80.8	28.0	0.0	0.7	465.8	435.6	425.1	.	512.8
International Avg (n=9)	2003	1782	15.8	83.8	6.5	0.4	4.6	456.0	453.0	427.1	427.3	450.8

Question: How much do you agree with these statements about advanced mathematics and physics education within your school. The school encourages students to study advanced mathematics and physics

Location: TQG-06a (PTBG06A)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	412	20.1	46.7	30.9	2.2	8.5	0.0	0.6	372.4	373.2	376.6	408.2	350.4	.	419.1
Italy	279	255	25.1	52.0	16.7	6.2	8.4	0.0	0.9	393.6	377.9	355.1	416.2	302.6	.	386.3
Lebanon	257	251	66.4	27.9	3.6	2.1	0.5	0.0	1.4	409.5	405.1	419.9	485.2	402.6	.	408.6
Norway	161	151	41.7	52.6	3.2	2.5	7.0	0.0	0.0	506.6	503.0	525.4	490.4	538.9	.	.
Portugal	149	148	51.9	37.6	9.1	1.5	1.0	0.0	0.0	463.1	468.9	482.2	454.1	435.5	.	.
Russian Federation	207	205	77.1	19.8	2.6	0.5	0.4	0.0	0.4	514.1	482.4	528.5	449.7	449.7	.	488.4
Slovenia	66	64	22.5	66.3	11.2	0.0	1.0	0.0	1.2	564.5	525.0	500.9	.	495.8	.	547.3
Sweden	217	209	44.1	42.1	12.2	1.6	3.6	0.0	0.0	468.8	442.2	449.5	454.7	445.1	.	.
United States	217	158	63.3	33.0	2.7	1.0	28.0	0.0	0.4	449.0	426.8	455.4	435.1	425.1	.	516.1
International Avg (n=9)	2003	1853	45.8	42.0	10.2	2.0	6.5	0.0	0.5	460.2	444.9	454.8	449.2	427.3	.	461.0

Question: How much do you agree with these statements about advanced mathematics and physics education within your school. The school promotes professional development for teachers of advanced mathematics and physics

Location: TQG-06b (PTBG06B)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	405	5.9	49.3	36.4	8.3	8.5	0.0	1.7	377.1	374.7	375.5	367.4	351.3	.	402.6
Italy	279	254	8.8	31.0	36.5	23.7	8.4	0.0	1.1	402.6	373.8	388.2	369.0	302.6	.	377.8
Lebanon	257	251	55.5	38.4	4.2	1.9	0.5	0.0	1.0	414.7	398.4	415.6	516.6	402.6	.	393.1
Norway	161	151	13.2	55.5	26.4	4.8	7.0	0.0	0.0	490.9	508.0	505.0	506.3	538.9	.	.
Portugal	149	147	24.9	38.6	25.7	10.9	1.0	0.0	1.5	462.2	461.1	475.7	475.4	435.5	.	481.3
Russian Federation	207	205	71.1	25.6	2.7	0.6	0.4	0.0	0.4	514.5	501.6	409.0	419.4	449.7	.	488.4
Slovenia	66	64	30.6	55.8	10.4	3.1	1.0	0.0	1.2	557.9	528.5	507.4	397.6	495.8	.	547.3
Sweden	217	209	6.6	30.3	44.7	18.4	3.6	0.0	0.0	475.2	456.3	456.2	443.0	445.1	.	.
United States	217	158	31.0	40.1	25.5	3.4	28.0	0.0	0.4	451.6	475.7	377.3	432.9	425.1	.	516.1
International Avg (n=9)	2003	1844	27.5	40.5	23.6	8.3	6.5	0.0	0.8	460.8	453.1	434.4	436.4	427.4	.	458.1

Question: How much do you agree with these statements about advanced mathematics and physics education within your school. The school provides students with information about career options in advanced mathematics and physics

Location: TQG-06c (PTBG06C)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	409	23.7	60.6	14.9	0.9	8.5	0.0	0.9	375.5	377.6	361.4	397.1	350.4	.	402.4
Italy	279	256	22.0	49.3	19.1	9.6	8.4	0.0	0.4	388.7	381.4	375.0	368.0	302.6	.	365.8
Lebanon	257	250	46.3	40.0	8.9	4.9	0.5	0.0	2.3	413.8	403.7	403.7	451.3	402.6	.	388.3
Norway	161	151	41.1	52.4	5.7	0.9	7.0	0.0	0.0	498.8	510.5	506.4	439.7	538.9	.	.
Portugal	149	148	41.5	47.3	8.0	3.2	1.0	0.0	0.0	465.9	464.8	482.4	473.5	435.5	.	.
Russian Federation	207	205	74.5	24.4	1.1	0.0	0.4	0.0	0.4	511.0	503.7	388.8	.	449.7	.	488.4
Slovenia	66	64	21.7	68.0	10.3	0.0	1.0	0.0	1.2	557.6	524.3	521.0	.	495.8	.	547.3
Sweden	217	209	12.4	45.5	35.7	6.4	3.6	0.0	0.0	479.9	449.8	463.9	394.1	445.1	.	.
United States	217	157	24.9	56.0	16.1	2.9	28.0	0.0	0.6	444.1	451.1	404.0	444.6	425.1	.	503.2
International Avg (n=9)	2003	1849	34.2	49.3	13.3	3.2	6.5	0.0	0.6	459.5	451.9	434.1	424.1	427.3	.	449.2

Question: How much do you agree with these statements about advanced mathematics and physics education within your school. Advanced mathematics and physics teachers are admired by other teachers in the school

Location: TQG-06d (PTBG06D)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	402	1.9	9.0	62.5	26.6	8.5	0.0	2.5	405.6	372.6	376.7	369.3	350.4	.	383.6
Italy	279	250	4.5	43.7	32.5	19.4	8.4	0.0	3.1	406.6	367.3	386.8	387.3	302.6	.	414.5
Lebanon	257	248	49.0	40.8	8.3	1.9	0.5	0.0	2.1	403.1	418.9	405.4	423.3	402.6	.	413.4
Norway	161	151	59.0	33.4	5.8	1.9	7.0	0.0	0.0	498.8	514.4	509.1	512.9	538.9	.	.
Portugal	149	148	7.9	47.1	32.5	12.6	1.0	0.0	0.0	472.7	472.1	455.3	473.8	435.5	.	.
Russian Federation	207	203	39.1	51.0	9.0	0.9	0.4	0.0	1.5	508.2	500.9	557.1	439.2	449.7	.	474.8
Slovenia	66	64	2.9	19.9	49.7	27.5	1.0	0.0	1.2	595.1	543.0	536.4	506.6	495.8	.	547.3
Sweden	217	208	2.4	25.8	46.6	25.2	3.6	0.0	0.3	503.8	467.6	442.8	460.5	445.1	.	412.7
United States	217	157	29.3	47.8	17.5	5.4	28.0	0.0	0.8	466.2	434.2	412.1	473.2	425.1	.	466.7
International Avg (n=9)	2003	1831	21.8	35.4	29.4	13.5	6.5	0.0	1.3	473.3	454.6	453.5	449.6	427.3	.	444.7

Question: How much do you agree with these statements about advanced mathematics and physics education within your school. Teachers have high expectations for student achievement in advanced mathematics and physics

Location: TQG-06e (PTBG06E)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	406	28.7	60.3	11.0	0.0	8.5	0.0	1.5	379.1	375.3	358.6	.	351.3	.	408.6
Italy	279	254	19.9	46.5	29.1	4.5	8.4	0.0	1.1	359.7	387.7	382.7	383.4	302.6	.	377.8
Lebanon	257	248	62.8	34.1	2.8	0.3	0.5	0.0	1.7	411.9	410.9	383.2	280.1	402.6	.	398.7
Norway	161	151	44.4	49.2	5.4	0.9	7.0	0.0	0.0	512.4	501.1	488.9	439.7	538.9	.	.
Portugal	149	148	27.3	49.2	19.5	4.0	1.0	0.0	0.0	481.7	459.2	459.7	495.7	435.5	.	.
Russian Federation	207	204	42.5	54.6	2.9	0.0	0.4	0.0	1.0	511.8	509.4	435.0	.	449.7	.	457.7
Slovenia	66	64	9.5	73.3	17.2	0.0	1.0	0.0	1.2	580.3	533.5	494.6	.	495.8	.	547.3
Sweden	217	209	23.1	64.0	12.1	0.9	3.6	0.0	0.0	461.5	455.6	447.0	354.6	445.1	.	.
United States	217	158	66.6	24.5	2.3	6.7	28.0	0.0	0.4	463.9	422.4	368.0	315.3	425.1	.	516.1
International Avg (n=9)	2003	1842	36.1	50.6	11.4	1.9	6.5	0.0	0.8	462.5	450.6	424.2	378.1	427.4	.	451.0

Question: How much do you agree with these statements about advanced mathematics and physics education within your school. Students at this school respect students who excel in advanced mathematics and physics

Location: TQG-06f (PTBG06F)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	400	13.8	44.5	35.2	6.5	8.5	0.0	3.2	377.3	379.7	369.7	364.1	350.4	.	385.0
Italy	279	254	37.1	50.1	12.4	0.4	8.4	0.0	1.1	378.6	387.9	353.1	481.7	302.6	.	377.8
Lebanon	257	246	59.3	35.8	4.5	0.4	0.5	0.0	3.5	407.5	411.3	419.7	337.1	402.6	.	438.6
Norway	161	151	55.3	40.6	3.2	0.9	7.0	0.0	0.0	512.1	494.6	528.2	439.7	538.9	.	.
Portugal	149	148	53.6	39.5	6.0	0.9	1.0	0.0	0.0	468.4	464.5	470.8	462.0	435.5	.	.
Russian Federation	207	204	50.2	45.0	4.3	0.5	0.4	0.0	1.0	521.3	501.2	440.6	407.6	449.7	.	457.7
Slovenia	66	64	2.9	46.5	49.1	1.6	1.0	0.0	1.2	495.9	534.9	529.5	539.7	495.8	.	547.3
Sweden	217	208	40.4	47.6	10.1	1.9	3.6	0.0	0.3	466.6	452.5	432.9	408.3	445.1	.	311.2
United States	217	157	57.2	31.6	10.9	0.3	28.0	0.0	0.8	444.9	451.2	399.8	384.3	425.1	.	466.7
International Avg (n=9)	2003	1832	41.1	42.4	15.1	1.5	6.5	0.0	1.2	452.5	453.1	438.3	425.0	427.3	.	426.3

Question: How much do you agree with these statements about advanced mathematics and physics education within your school. Parents expect their children to study advanced mathematics and physics

Location: TQG-06g (PTBG06G)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	405	25.6	64.1	10.1	0.2	8.5	0.0	1.8	377.1	376.3	361.5	370.5	350.4	.	381.9
Italy	279	253	22.5	53.7	19.9	3.8	8.4	0.0	2.2	373.8	375.0	406.2	348.0	302.6	.	403.4
Lebanon	257	245	48.4	38.4	12.0	1.3	0.5	0.0	2.7	409.5	408.4	416.9	407.8	402.6	.	419.6
Norway	161	150	12.8	68.1	17.8	1.3	7.0	0.0	1.1	508.0	509.5	492.6	466.4	538.9	.	428.8
Portugal	149	148	18.2	54.4	21.6	5.7	1.0	0.0	0.0	475.4	467.2	464.1	447.3	435.5	.	.
Russian Federation	207	205	45.2	51.3	3.6	0.0	0.4	0.0	0.4	510.5	508.7	461.6	.	449.7	.	488.4
Slovenia	66	63	0.0	32.2	60.6	7.2	1.0	0.0	3.6	.	533.1	534.0	495.6	495.8	.	544.2
Sweden	217	205	6.3	57.2	30.1	6.4	3.6	0.0	1.5	471.4	450.6	455.5	484.9	445.1	.	420.8
United States	217	157	23.7	41.2	29.8	5.3	28.0	0.0	0.8	484.7	448.7	403.8	410.4	425.1	.	466.7
International Avg (n=9)	2003	1831	22.5	51.2	22.8	3.5	6.5	0.0	1.6	451.3	453.1	444.0	428.9	427.3	.	444.2

Question: Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements. This school is located in a safe neighborhood

Location: TQG-07a (PTBG07A)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	411	57.4	38.9	3.8	0.0	8.5	0.0	0.9	379.7	372.6	322.4	257.8	350.4	.	420.1
Italy	279	254	58.9	32.5	6.2	2.4	8.4	0.0	1.1	383.3	377.1	387.7	338.3	302.6	.	377.8
Lebanon	257	247	76.0	18.4	2.5	3.1	0.5	0.0	2.7	415.3	401.1	346.0	389.0	402.6	.	413.7
Norway	161	151	87.5	9.5	2.1	0.9	7.0	0.0	0.0	504.4	523.5	468.7	439.7	538.9	.	.
Portugal	149	148	76.6	19.0	4.4	0.0	1.0	0.0	0.0	472.3	447.1	458.9	.	435.5	.	.
Russian Federation	207	205	72.5	23.8	1.6	2.1	0.4	0.0	0.4	516.4	484.0	417.2	552.6	449.7	.	488.4
Slovenia	66	65	52.9	44.1	3.0	0.0	1.0	0.0	0.0	546.8	515.1	499.8	.	495.8	.	.
Sweden	217	209	80.4	18.2	1.4	0.0	3.6	0.0	0.0	456.5	456.0	356.2	.	445.1	.	.
United States	217	158	71.6	16.7	11.5	0.2	28.0	0.0	0.4	452.4	402.6	433.6	326.9	425.1	.	516.1
International Avg (n=9)	2003	1848	70.4	24.6	4.1	1.0	6.5	0.0	0.6	458.5	442.1	410.1	384.0	427.3	.	443.2

Question: Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements. I feel safe at this school

Location: TQG-07b (PTBG07B)

Country	Sample	Valid N	1.Agree a lot %	2.Agree a little %	3.Disagree a little %	4.Disagree a lot %	Not Administered %	Not Applicable %	Omitted %	1.Agree a lot Mean	2.Agree a little Mean	3.Disagree a little Mean	4.Disagree a lot Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	410	68.0	31.3	0.7	0.0	8.5	0.0	0.9	376.0	373.5	307.8	.	350.4	.	410.5
Italy	279	254	60.6	34.0	3.8	1.7	8.4	0.0	1.1	382.9	376.4	395.8	342.3	302.6	.	377.8
Lebanon	257	249	87.1	10.0	2.3	0.6	0.5	0.0	1.9	413.7	386.9	368.5	377.7	402.6	.	431.3
Norway	161	151	98.1	1.1	0.0	0.9	7.0	0.0	0.0	506.5	412.9	.	439.7	538.9	.	.
Portugal	149	148	86.2	13.3	0.4	0.0	1.0	0.0	0.0	468.5	455.9	482.1	.	435.5	.	.
Russian Federation	207	205	89.5	10.5	0.0	0.0	0.4	0.0	0.4	508.7	500.2	.	.	449.7	.	488.4
Slovenia	66	65	63.1	30.6	6.3	0.0	1.0	0.0	0.0	532.3	534.3	508.3	.	495.8	.	.
Sweden	217	209	88.7	10.6	0.7	0.0	3.6	0.0	0.0	457.4	439.3	388.8	.	445.1	.	.
United States	217	158	72.0	22.1	5.7	0.2	28.0	0.0	0.4	459.1	413.8	333.1	326.9	425.1	.	516.1
International Avg (n=9)	2003	1849	79.3	18.2	2.2	0.4	6.5	0.0	0.5	456.1	432.6	397.8	371.6	427.3	.	444.8

Question: Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements. This school's security policies and practices are sufficient
Location: TQG-07c (PTBG07C)

Country	Sample	Valid N	1.Agree a lot %	2.Agree a little %	3.Disagree a little %	4.Disagree a lot %	Not Administered %	Not Applicable %	Omitted %	1.Agree a lot Mean	2.Agree a little Mean	3.Disagree a little Mean	4.Disagree a lot Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	409	46.7	47.5	5.3	0.5	8.5	0.0	1.2	380.4	369.3	372.1	371.3	350.4	.	413.5
Italy	279	254	48.0	37.3	12.6	2.1	8.4	0.0	1.1	381.2	382.8	376.8	345.9	302.6	.	377.8
Lebanon	257	246	57.2	36.7	4.8	1.4	0.5	0.0	2.8	417.9	404.3	389.0	309.9	402.6	.	414.7
Norway	161	151	85.9	12.3	0.8	0.9	7.0	0.0	0.0	506.3	498.2	521.6	439.7	538.9	.	.
Portugal	149	148	60.3	34.0	5.7	0.0	1.0	0.0	0.0	469.0	459.3	489.8	.	435.5	.	.
Russian Federation	207	205	82.2	16.6	1.2	0.0	0.4	0.0	0.4	511.1	496.0	452.2	.	449.7	.	488.4
Slovenia	66	65	50.5	44.9	4.7	0.0	1.0	0.0	0.0	548.4	513.4	520.5	.	495.8	.	.
Sweden	217	209	69.2	27.1	3.0	0.7	3.6	0.0	0.0	461.0	447.9	382.5	449.3	445.1	.	.
United States	217	158	62.1	25.9	12.0	0.0	28.0	0.0	0.4	462.8	420.5	378.2	.	425.1	.	516.1
International Avg (n=9)	2003	1845	62.5	31.4	5.6	0.6	6.5	0.0	0.7	459.8	443.5	431.4	383.2	427.3	.	442.1

Question: Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements. The students behave in an orderly manner

Location: TQG-07d (PTBG07D)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	408	18.9	65.1	14.8	1.2	8.5	0.0	1.6	387.4	377.2	351.1	369.8	350.4	.	373.5
Italy	279	254	38.8	52.9	7.4	1.0	8.4	0.0	1.1	394.9	374.2	353.8	343.4	302.6	.	377.8
Lebanon	257	249	49.4	43.9	6.5	0.3	0.5	0.0	1.9	410.2	409.1	415.9	280.1	402.6	.	431.3
Norway	161	151	77.7	20.3	0.5	1.4	7.0	0.0	0.0	509.2	496.2	410.3	430.8	538.9	.	.
Portugal	149	148	28.0	59.9	9.6	2.4	1.0	0.0	0.0	475.3	463.2	461.9	481.1	435.5	.	.
Russian Federation	207	204	60.0	38.5	1.5	0.0	0.4	0.0	1.0	510.7	505.5	454.8	.	449.7	.	499.3
Slovenia	66	65	30.2	58.0	11.8	0.0	1.0	0.0	0.0	564.4	514.2	531.4	.	495.8	.	.
Sweden	217	208	54.7	39.9	5.0	0.3	3.6	0.0	0.4	465.1	453.7	365.3	379.9	445.1	.	399.5
United States	217	158	56.0	27.5	15.7	0.8	28.0	0.0	0.4	469.2	436.8	354.0	396.3	425.1	.	516.1
International Avg (n=9)	2003	1845	46.0	45.1	8.1	0.8	6.5	0.0	0.7	465.2	447.8	410.9	383.1	427.3	.	432.9

Question: Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements. The students are respectful of the teachers

Location: TQG-07e (PTBG07E)

Country	Sample	Valid N	1.Agree a lot %	2.Agree a little %	3.Disagree a little %	4.Disagree a lot %	Not Administered %	Not Applicable %	Omitted %	1.Agree a lot Mean	2.Agree a little Mean	3.Disagree a little Mean	4.Disagree a lot Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	408	21.9	66.9	11.0	0.2	8.5	0.0	1.6	388.2	372.9	363.6	355.3	350.4	.	371.6
Italy	279	256	42.6	50.1	6.4	0.9	8.4	0.0	0.4	384.8	380.3	359.2	343.4	302.6	.	365.8
Lebanon	257	249	66.3	30.1	3.6	0.0	0.5	0.0	1.9	406.7	417.2	404.5	.	402.6	.	431.3
Norway	161	151	62.0	34.3	2.2	1.4	7.0	0.0	0.0	515.6	491.4	461.3	430.8	538.9	.	.
Portugal	149	147	39.8	53.6	5.7	0.9	1.0	0.0	0.1	475.0	460.0	479.7	449.0	435.5	.	439.0
Russian Federation	207	205	55.8	41.6	2.6	0.0	0.4	0.0	0.4	516.7	498.5	467.4	.	449.7	.	488.4
Slovenia	66	65	24.0	63.5	12.5	0.0	1.0	0.0	0.0	560.9	520.7	529.0	.	495.8	.	.
Sweden	217	209	44.6	51.2	4.2	0.0	3.6	0.0	0.0	465.2	453.4	365.6	.	445.1	.	.
United States	217	158	52.8	31.4	15.1	0.8	28.0	0.0	0.4	465.7	445.0	354.3	376.5	425.1	.	516.1
International Avg (n=9)	2003	1848	45.5	47.0	7.0	0.5	6.5	0.0	0.5	464.3	448.8	420.5	391.0	427.3	.	435.4

Question: Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements. The students respect school property

Location: TQG-07f (PTBG07F)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	409	12.1	70.7	16.0	1.1	8.5	0.0	1.6	378.9	375.1	371.3	398.0	350.4	.	371.8
Italy	279	255	23.3	59.2	15.8	1.7	8.4	0.0	0.9	378.0	386.8	365.4	337.4	302.6	.	371.9
Lebanon	257	249	50.7	43.9	3.8	1.6	0.5	0.0	1.9	409.9	415.0	344.1	418.7	402.6	.	431.3
Norway	161	151	50.0	43.4	5.4	1.2	7.0	0.0	0.0	513.5	498.6	476.8	497.1	538.9	.	.
Portugal	149	148	31.4	57.5	10.7	0.4	1.0	0.0	0.0	473.2	463.1	468.1	482.1	435.5	.	.
Russian Federation	207	204	31.4	59.5	8.6	0.5	0.4	0.0	1.0	499.2	508.5	534.5	407.6	449.7	.	547.3
Slovenia	66	65	17.1	60.5	22.4	0.0	1.0	0.0	0.0	584.3	521.0	518.9	.	495.8	.	.
Sweden	217	208	35.2	54.7	8.1	2.0	3.6	0.0	0.3	459.9	459.5	435.8	351.8	445.1	.	311.7
United States	217	158	42.4	41.3	10.0	6.4	28.0	0.0	0.4	447.4	454.4	447.5	312.7	425.1	.	516.1
International Avg (n=9)	2003	1847	32.6	54.5	11.2	1.7	6.5	0.0	0.7	460.5	453.6	440.3	400.7	427.3	.	425.0

Question: Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements. This school has clear rules about student conduct

Location: TQG-07g (PTBG07G)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	411	20.5	65.7	11.6	2.3	8.5	0.0	0.9	375.5	375.7	365.9	384.4	350.4	.	420.1
Italy	279	254	67.6	25.4	6.1	0.8	8.4	0.0	1.1	378.6	392.7	355.7	343.2	302.6	.	377.8
Lebanon	257	249	68.7	28.0	2.2	1.1	0.5	0.0	1.9	413.0	408.2	372.2	322.8	402.6	.	431.3
Norway	161	151	53.8	41.8	2.4	1.9	7.0	0.0	0.0	510.2	503.6	460.0	442.0	538.9	.	.
Portugal	149	148	58.4	34.7	5.9	1.0	1.0	0.0	0.0	469.6	461.1	458.6	558.2	435.5	.	.
Russian Federation	207	205	83.4	15.1	1.5	0.0	0.4	0.0	0.4	505.3	535.2	379.7	.	449.7	.	488.4
Slovenia	66	65	30.0	61.2	7.3	1.5	1.0	0.0	0.0	543.7	525.8	522.7	558.7	495.8	.	.
Sweden	217	208	34.7	50.5	13.8	1.0	3.6	0.0	0.4	463.8	455.4	434.9	464.0	445.1	.	323.4
United States	217	158	57.5	28.0	8.7	5.8	28.0	0.0	0.4	464.5	412.1	452.8	341.7	425.1	.	516.1
International Avg (n=9)	2003	1849	52.7	38.9	6.6	1.7	6.5	0.0	0.6	458.2	452.2	422.5	426.9	427.3	.	426.2

Question: Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements. This
school's rules are enforced in a fair and consistent manner

Location: TQG-07h (PTBG07H)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	410	17.1	63.9	17.4	1.6	8.5	0.0	0.9	375.7	376.3	368.3	375.2	350.4	.	410.5
Italy	279	254	40.8	44.3	12.8	2.1	8.4	0.0	1.1	370.3	399.7	349.7	361.1	302.6	.	377.8
Lebanon	257	247	58.9	37.8	2.8	0.6	0.5	0.0	2.6	416.3	397.7	454.6	362.6	402.6	.	416.4
Norway	161	151	41.1	47.0	10.3	1.6	7.0	0.0	0.0	507.1	509.2	490.1	415.4	538.9	.	.
Portugal	149	148	41.5	47.7	10.3	0.6	1.0	0.0	0.0	467.0	463.1	478.6	566.6	435.5	.	.
Russian Federation	207	204	85.6	14.4	0.0	0.0	0.4	0.0	1.0	506.1	515.0	.	.	449.7	.	547.3
Slovenia	66	64	14.3	58.9	25.1	1.7	1.0	0.0	2.4	570.9	526.6	517.3	557.4	495.8	.	542.6
Sweden	217	209	30.8	55.6	12.0	1.6	3.6	0.0	0.0	469.7	450.0	453.4	359.6	445.1	.	.
United States	217	158	43.6	30.3	24.6	1.5	28.0	0.0	0.4	453.4	439.1	423.4	452.6	425.1	.	516.1
International Avg (n=9)	2003	1845	41.5	44.4	12.8	1.3	6.5	0.0	0.9	459.6	453.0	441.9	431.3	427.3	.	468.5

Question: In your current school, how severe is each problem. The school building needs significant repair
Location: TQG-08a (PTBG08A)

Country	Sample	Valid N	1.Not a proble m %	2.Mino r proble m %	3.Mode rate proble m %	4.Seri ous proble m %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not a proble m Mean	2.Mino r proble m Mean	3.Mode rate proble m Mean	4.Seri ous proble m Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	34.8	33.9	23.7	7.6	8.5	0.0	1.0	371.9	383.1	367.3	372.7	350.4	.	417.0
Italy	279	256	30.4	40.2	24.1	5.3	8.4	0.0	0.4	370.4	389.3	380.6	370.8	302.6	.	365.8
Lebanon	257	252	50.8	32.5	9.9	6.8	0.5	0.0	0.6	420.7	406.9	397.1	369.8	402.6	.	380.1
Norway	161	151	51.6	36.2	10.8	1.5	7.0	0.0	0.0	507.1	497.3	510.1	573.2	538.9	.	.
Portugal	149	148	49.7	17.6	23.1	9.6	1.0	0.0	0.0	465.6	453.2	474.1	481.9	435.5	.	.
Russian Federation	207	205	31.5	32.5	26.7	9.2	0.4	0.0	0.5	511.4	510.5	499.7	503.9	449.7	.	595.8
Slovenia	66	64	43.3	34.4	13.0	9.2	1.0	0.0	2.0	534.5	526.1	531.1	531.7	495.8	.	556.4
Sweden	217	209	36.7	29.0	27.6	6.7	3.6	0.0	0.0	449.9	465.5	454.2	441.6	445.1	.	.
United States	217	158	43.4	43.2	8.6	4.8	28.0	0.0	0.4	459.1	417.7	454.3	477.7	425.1	.	516.1
International Avg (n=9)	2003	1853	41.4	33.3	18.6	6.8	6.5	0.0	0.6	454.5	449.9	452.1	458.1	427.3	.	471.9

Question: In your current school, how severe is each problem. Teachers do not have adequate workspace (e.g., for preparation, collaboration, or meeting with students)

Location: TQG-08b (PTBG08B)

Country	Sample	Valid N	1.Not a proble m %	2.Mino r proble m %	3.Mode rate proble m %	4.Seri ous proble m %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not a proble m Mean	2.Mino r proble m Mean	3.Mode rate proble m Mean	4.Seri ous proble m Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	36.6	27.4	24.9	11.0	8.5	0.0	1.0	368.2	382.5	367.0	393.8	350.4	.	417.0
Italy	279	256	22.8	21.8	36.6	18.7	8.4	0.0	0.4	367.2	387.7	386.2	377.3	302.6	.	365.8
Lebanon	257	251	46.2	32.4	14.4	6.9	0.5	0.0	0.7	418.4	397.1	425.3	389.9	402.6	.	366.6
Norway	161	151	40.0	39.0	18.5	2.5	7.0	0.0	0.0	508.1	502.6	505.3	485.9	538.9	.	.
Portugal	149	147	35.5	32.4	20.9	11.2	1.0	0.0	0.4	469.5	454.8	477.9	471.7	435.5	.	508.1
Russian Federation	207	206	67.0	17.3	9.5	6.2	0.4	0.0	0.0	500.6	486.3	542.6	592.4	449.7	.	.
Slovenia	66	64	39.1	36.8	14.5	9.6	1.0	0.0	2.0	529.5	538.8	518.7	524.3	495.8	.	556.4
Sweden	217	209	30.8	38.6	25.2	5.5	3.6	0.0	0.0	446.9	455.7	455.6	493.4	445.1	.	.
United States	217	157	48.4	27.0	16.7	8.0	28.0	0.0	0.8	455.4	455.9	419.5	347.2	425.1	.	551.0
International Avg (n=9)	2003	1851	40.7	30.3	20.1	8.8	6.5	0.0	0.6	451.5	451.3	455.3	452.9	427.3	.	460.8

Question: In your current school, how severe is each problem. Teachers do not have adequate instructional materials and supplies
Location: TQG-08c (PTBG08C)

Country	Sample	Valid N	1.Not a proble m %	2.Mino r proble m %	3.Mode rate proble m %	4.Seri ous proble m %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not a proble m Mean	2.Mino r proble m Mean	3.Mode rate proble m Mean	4.Seri ous proble m Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	44.3	32.7	18.3	4.7	8.5	0.0	1.0	376.4	376.3	369.2	369.0	350.4	.	417.0
Italy	279	254	23.7	35.7	29.3	11.3	8.4	0.0	1.1	352.6	401.8	383.5	363.7	302.6	.	377.8
Lebanon	257	250	42.4	38.8	14.5	4.3	0.5	0.0	1.7	425.0	404.9	395.6	369.0	402.6	.	390.6
Norway	161	151	43.3	43.9	12.8	0.0	7.0	0.0	0.0	509.0	504.9	490.9	.	538.9	.	.
Portugal	149	148	36.0	36.1	25.4	2.5	1.0	0.0	0.0	464.3	459.4	478.1	498.4	435.5	.	.
Russian Federation	207	206	58.7	27.2	12.3	1.9	0.4	0.0	0.0	504.8	514.1	500.3	558.6	449.7	.	.
Slovenia	66	64	61.2	28.8	6.2	3.9	1.0	0.0	2.0	540.0	521.1	499.3	509.7	495.8	.	556.4
Sweden	217	209	49.4	34.6	13.4	2.5	3.6	0.0	0.0	456.9	460.0	447.6	390.2	445.1	.	.
United States	217	158	49.2	24.8	23.7	2.4	28.0	0.0	0.4	460.4	463.0	378.7	460.7	425.1	.	516.1
International Avg (n=9)	2003	1850	45.4	33.6	17.3	3.7	6.5	0.0	0.7	454.4	456.2	438.1	439.9	427.3	.	451.6

Question: In your current school, how severe is each problem. The school classrooms are not cleaned often enough
Location: TQG-08d (PTBG08D)

Country	Sample	Valid N	1.Not a proble m %	2.Mino r proble m %	3.Mode rate proble m %	4.Seri ous proble m %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not a proble m Mean	2.Mino r proble m Mean	3.Mode rate proble m Mean	4.Seri ous proble m Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	65.2	24.1	8.1	2.6	8.5	0.0	1.0	373.8	381.9	364.3	363.0	350.4	.	417.0
Italy	279	254	43.1	38.9	15.1	3.0	8.4	0.0	1.1	383.0	387.1	358.8	367.2	302.6	.	377.8
Lebanon	257	251	78.7	11.5	5.2	4.6	0.5	0.0	1.2	415.2	405.1	385.5	365.8	402.6	.	410.3
Norway	161	151	85.2	11.9	2.9	0.0	7.0	0.0	0.0	507.5	494.7	471.4	.	538.9	.	.
Portugal	149	147	74.8	15.8	9.4	0.0	1.0	0.0	0.4	468.7	466.8	451.7	.	435.5	.	495.6
Russian Federation	207	206	89.9	6.8	1.5	1.8	0.4	0.0	0.0	505.9	510.5	564.7	543.6	449.7	.	.
Slovenia	66	64	79.5	20.5	0.0	0.0	1.0	0.0	2.0	535.3	513.8	.	.	495.8	.	556.4
Sweden	217	208	53.4	34.4	11.2	1.0	3.6	0.0	0.5	446.5	462.1	469.4	489.4	445.1	.	481.0
United States	217	158	66.4	23.9	6.6	3.2	28.0	0.0	0.4	449.9	409.3	456.3	483.5	425.1	.	516.1
International Avg (n=9)	2003	1849	70.7	20.8	6.7	1.8	6.5	0.0	0.7	454.0	447.9	440.3	435.4	427.3	.	464.9

Question: In your current school, how severe is each problem. The school classrooms need maintenance work
Location: TQG-08e (PTBG08E)

Country	Sample	Valid N	1.Not a proble m %	2.Mino r proble m %	3.Mode rate proble m %	4.Seri ous proble m %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not a proble m Mean	2.Mino r proble m Mean	3.Mode rate proble m Mean	4.Seri ous proble m Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	37.2	36.6	19.5	6.7	8.5	0.0	1.0	375.2	375.6	373.5	370.1	350.4	.	417.0
Italy	279	255	26.8	41.2	28.2	3.9	8.4	0.0	0.7	366.4	398.1	374.1	352.6	302.6	.	298.4
Lebanon	257	252	58.4	26.6	8.6	6.4	0.5	0.0	0.6	417.7	409.3	387.0	379.6	402.6	.	380.1
Norway	161	151	55.2	35.0	8.0	1.8	7.0	0.0	0.0	507.5	498.2	511.5	526.2	538.9	.	.
Portugal	149	148	44.2	30.9	21.3	3.6	1.0	0.0	0.0	466.9	457.0	477.6	489.7	435.5	.	.
Russian Federation	207	203	34.7	46.1	13.4	5.8	0.4	0.0	0.9	509.7	511.3	484.6	537.5	449.7	.	404.8
Slovenia	66	64	53.2	39.1	5.2	2.4	1.0	0.0	2.0	539.9	516.6	532.3	562.2	495.8	.	556.4
Sweden	217	209	38.6	38.0	19.2	4.2	3.6	0.0	0.0	449.1	460.8	456.1	453.3	445.1	.	.
United States	217	158	45.5	43.4	7.6	3.4	28.0	0.0	0.4	450.1	429.8	441.9	479.8	425.1	.	516.1
International Avg (n=9)	2003	1850	43.8	37.4	14.6	4.2	6.5	0.0	0.6	453.6	450.7	448.7	461.2	427.3	.	428.8

Question: In your current school, how severe is each problem. Teachers do not have adequate technological resources
Location: TQG-08f (PTBG08F)

Country	Sample	Valid N	1.Not a proble m %	2.Mino r proble m %	3.Mode rate proble m %	4.Seri ous proble m %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not a proble m Mean	2.Mino r proble m Mean	3.Mode rate proble m Mean	4.Seri ous proble m Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	408	47.7	25.6	17.2	9.5	8.5	0.0	1.3	382.0	373.8	367.6	353.2	350.4	.	405.3
Italy	279	255	26.2	37.7	26.8	9.3	8.4	0.0	0.7	352.9	404.3	379.9	370.0	302.6	.	298.4
Lebanon	257	249	34.1	42.8	15.7	7.4	0.5	0.0	2.8	423.5	407.7	395.1	385.9	402.6	.	433.3
Norway	161	151	47.8	43.4	8.8	0.0	7.0	0.0	0.0	504.3	504.1	511.9	.	538.9	.	.
Portugal	149	148	44.9	27.1	20.8	7.2	1.0	0.0	0.0	463.7	464.2	468.4	493.1	435.5	.	.
Russian Federation	207	206	58.1	31.2	8.5	2.2	0.4	0.0	0.0	506.2	513.4	500.2	498.2	449.7	.	.
Slovenia	66	64	41.9	40.7	13.6	3.8	1.0	0.0	2.0	554.1	516.0	514.8	491.0	495.8	.	556.4
Sweden	217	209	39.4	41.5	17.2	1.9	3.6	0.0	0.0	475.2	449.1	433.4	362.6	445.1	.	.
United States	217	158	45.6	31.0	14.8	8.6	28.0	0.0	0.4	468.6	425.6	445.3	350.9	425.1	.	516.1
International Avg (n=9)	2003	1848	42.9	35.7	15.9	5.5	6.5	0.0	0.8	458.9	450.9	446.3	413.1	427.3	.	441.9

Question: In your current school, how severe is each problem. Teachers do not have adequate support for using technology
Location: TQG-08g (PTBG08G)

Country	Sample	Valid N	1.Not a proble m %	2.Mino r proble m %	3.Mode rate proble m %	4.Seri ous proble m %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not a proble m Mean	2.Mino r proble m Mean	3.Mode rate proble m Mean	4.Seri ous proble m Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	409	34.3	31.8	23.5	10.4	8.5	0.0	1.3	377.3	373.7	377.4	362.5	350.4	.	408.7
Italy	279	254	21.1	39.5	32.1	7.3	8.4	0.0	1.1	361.5	390.9	377.7	396.6	302.6	.	344.2
Lebanon	257	248	36.5	40.5	17.2	5.7	0.5	0.0	3.4	429.1	402.8	395.1	373.9	402.6	.	432.7
Norway	161	151	55.7	35.8	8.5	0.0	7.0	0.0	0.0	508.8	496.9	512.9	.	538.9	.	.
Portugal	149	148	46.2	26.3	24.6	2.9	1.0	0.0	0.0	466.2	457.8	475.9	485.5	435.5	.	.
Russian Federation	207	206	57.3	29.7	9.7	3.3	0.4	0.0	0.0	504.1	508.0	519.5	534.6	449.7	.	.
Slovenia	66	64	57.7	23.0	16.8	2.4	1.0	0.0	2.0	540.1	519.0	520.9	494.4	495.8	.	556.4
Sweden	217	209	34.4	53.5	10.9	1.3	3.6	0.0	0.0	468.2	445.6	455.9	487.0	445.1	.	.
United States	217	158	45.3	32.0	13.2	9.5	28.0	0.0	0.4	467.9	426.5	438.0	372.7	425.1	.	516.1
International Avg (n=9)	2003	1847	43.2	34.7	17.4	4.7	6.5	0.0	0.9	458.1	446.8	452.6	438.4	427.3	.	451.6

Question: How often do you have the following types of interactions with other teachers. Discuss how to teach a particular topic
Location: TQG-09a (PTBG09A)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	25.8	36.9	31.9	5.3	8.5	0.0	1.0	360.7	374.8	385.0	379.7	350.4	.	417.0
Italy	279	255	27.8	35.6	30.6	6.1	8.4	0.0	0.7	398.9	372.3	378.7	353.0	302.6	.	374.9
Lebanon	257	253	29.0	44.3	25.4	1.3	0.5	0.0	0.5	409.7	413.2	407.1	385.6	402.6	.	398.1
Norway	161	151	9.0	32.4	55.1	3.4	7.0	0.0	0.0	512.0	509.5	499.1	535.6	538.9	.	.
Portugal	149	148	18.4	44.0	34.1	3.5	1.0	0.0	0.0	456.6	478.0	455.7	491.0	435.5	.	.
Russian Federation	207	201	10.6	60.1	26.0	3.3	0.4	0.0	2.0	525.8	508.9	510.2	420.4	449.7	.	490.9
Slovenia	66	64	14.2	32.7	48.2	4.9	1.0	0.0	2.0	558.7	536.3	523.8	484.0	495.8	.	556.4
Sweden	217	207	21.8	38.9	36.2	3.1	3.6	0.0	1.4	474.0	449.7	448.2	448.4	445.1	.	497.1
United States	217	158	33.1	25.8	24.9	16.2	28.0	0.0	0.4	459.2	422.7	470.1	392.6	425.1	.	516.1
International Avg (n=9)	2003	1847	21.1	39.0	34.7	5.2	6.5	0.0	0.9	461.7	451.7	453.1	432.2	427.3	.	464.4

Question: How often do you have the following types of interactions with other teachers. Collaborate in planning and preparing instructional materials
Location: TQG-09b (PTBG09B)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	409	22.7	35.1	35.5	6.6	8.5	0.0	1.2	367.9	369.6	381.2	388.9	350.4	.	415.4
Italy	279	255	13.1	30.4	46.9	9.7	8.4	0.0	0.7	365.2	399.4	370.7	389.1	302.6	.	374.9
Lebanon	257	253	21.1	42.6	32.1	4.1	0.5	0.0	0.3	426.7	414.0	392.7	418.5	402.6	.	468.0
Norway	161	151	4.1	21.4	63.2	11.3	7.0	0.0	0.0	492.9	506.8	503.5	513.4	538.9	.	.
Portugal	149	148	43.2	37.6	14.0	5.3	1.0	0.0	0.0	464.5	460.8	477.3	502.3	435.5	.	.
Russian Federation	207	202	9.3	47.5	37.9	5.4	0.4	0.0	1.7	493.3	501.2	530.8	433.6	449.7	.	488.0
Slovenia	66	64	0.0	29.0	48.1	22.9	1.0	0.0	2.0	.	551.6	531.0	504.5	495.8	.	556.4
Sweden	217	207	16.4	34.3	39.2	10.1	3.6	0.0	1.4	493.6	457.7	443.9	420.3	445.1	.	497.1
United States	217	158	31.5	23.2	27.4	17.9	28.0	0.0	0.4	442.3	451.9	455.8	405.7	425.1	.	516.1
International Avg (n=9)	2003	1847	17.9	33.5	38.3	10.4	6.5	0.0	0.8	443.3	457.0	454.1	441.8	427.3	.	473.7

Question: How often do you have the following types of interactions with other teachers. Share what I have learned about my teaching experiences
Location: TQG-09c (PTBG09C)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	411	18.2	40.7	35.1	6.0	8.5	0.0	0.7	367.3	370.1	381.1	393.7	350.4	.	414.7
Italy	279	253	16.9	31.7	41.2	10.3	8.4	0.0	1.3	389.7	370.3	381.5	392.3	302.6	.	380.0
Lebanon	257	252	34.4	43.2	20.3	2.1	0.5	0.0	0.6	409.8	408.0	413.1	412.9	402.6	.	479.2
Norway	161	151	15.2	51.6	31.7	1.6	7.0	0.0	0.0	507.4	507.6	498.9	511.1	538.9	.	.
Portugal	149	148	25.8	41.8	29.7	2.7	1.0	0.0	0.0	468.4	463.4	468.5	488.8	435.5	.	.
Russian Federation	207	202	8.7	58.2	33.0	0.0	0.4	0.0	1.7	519.7	504.0	512.2	.	449.7	.	488.0
Slovenia	66	64	2.8	49.6	46.8	0.8	1.0	0.0	2.0	608.7	543.6	512.5	546.0	495.8	.	556.4
Sweden	217	207	19.6	46.2	32.8	1.4	3.6	0.0	1.4	474.1	458.4	438.7	414.9	445.1	.	497.1
United States	217	158	23.3	33.0	36.9	6.8	28.0	0.0	0.4	477.7	428.4	423.1	483.6	425.1	.	516.1
International Avg (n=9)	2003	1846	18.3	44.0	34.2	3.5	6.5	0.0	0.9	469.2	450.4	447.7	455.4	427.3	.	475.9

Question: How often do you have the following types of interactions with other teachers. Visit another classroom to learn more about teaching
Location: TQG-09d (PTBG09D)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	0.4	1.6	12.9	85.1	8.5	0.0	1.0	380.1	340.7	365.9	376.6	350.4	.	417.0
Italy	279	253	0.7	3.4	15.7	80.2	8.4	0.0	1.3	335.2	383.0	346.7	387.3	302.6	.	380.0
Lebanon	257	254	8.4	20.3	34.4	36.9	0.5	0.0	0.0	410.3	418.9	397.3	417.4	402.6	.	.
Norway	161	151	0.0	0.9	29.3	69.8	7.0	0.0	0.0	.	471.8	503.3	506.0	538.9	.	.
Portugal	149	148	0.6	0.4	12.9	86.2	1.0	0.0	0.0	445.6	498.7	479.4	465.1	435.5	.	.
Russian Federation	207	202	5.2	43.4	50.4	1.1	0.4	0.0	1.7	530.6	509.2	507.3	397.6	449.7	.	488.0
Slovenia	66	64	0.0	2.8	43.9	53.3	1.0	0.0	2.0	.	594.8	526.4	531.3	495.8	.	556.4
Sweden	217	207	0.5	3.9	43.8	51.8	3.6	0.0	1.4	406.4	420.6	457.6	454.7	445.1	.	497.1
United States	217	158	3.4	11.1	31.4	54.1	28.0	0.0	0.4	489.8	464.8	445.8	431.5	425.1	.	516.1
International Avg (n=9)	2003	1847	2.1	9.7	30.5	57.6	6.5	0.0	0.9	428.3	455.8	447.8	440.8	427.3	.	475.8

Question: How often do you have the following types of interactions with other teachers. Work together to try out new ideas
Location: TQG-09e (PTBG09E)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	12.6	27.1	49.6	10.7	8.5	0.0	1.0	382.0	359.2	379.0	385.2	350.4	.	417.0
Italy	279	253	7.0	15.4	56.1	21.5	8.4	0.0	1.3	384.4	405.1	371.9	383.8	302.6	.	380.0
Lebanon	257	252	16.4	42.6	32.7	8.2	0.5	0.0	0.6	426.3	414.0	400.7	394.7	402.6	.	427.0
Norway	161	151	2.0	20.3	66.2	11.5	7.0	0.0	0.0	476.3	501.5	504.0	521.1	538.9	.	.
Portugal	149	148	18.0	34.0	34.9	13.2	1.0	0.0	0.0	470.2	466.6	462.3	475.3	435.5	.	.
Russian Federation	207	202	5.1	45.8	45.2	3.9	0.4	0.0	1.7	501.0	512.9	512.1	414.5	449.7	.	488.0
Slovenia	66	64	3.4	28.2	47.3	21.1	1.0	0.0	2.0	527.2	535.0	533.3	520.7	495.8	.	556.4
Sweden	217	207	9.1	24.3	57.5	9.1	3.6	0.0	1.4	494.3	445.1	451.5	458.0	445.1	.	497.1
United States	217	158	18.4	23.4	38.5	19.7	28.0	0.0	0.4	456.5	457.3	440.9	410.8	425.1	.	516.1
International Avg (n=9)	2003	1845	10.2	29.0	47.6	13.2	6.5	0.0	0.9	457.6	455.2	450.6	440.4	427.3	.	468.8

Question: How often do you have the following types of interactions with other teachers. Work as a group on implementing the curriculum
Location: TQG-09f (PTBG09F)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	409	22.5	35.6	31.4	10.6	8.5	0.0	1.1	378.8	363.2	380.9	386.3	350.4	.	412.3
Italy	279	253	5.8	23.0	42.4	28.9	8.4	0.0	1.3	348.2	379.9	381.2	386.2	302.6	.	380.0
Lebanon	257	253	26.3	30.9	33.3	9.4	0.5	0.0	0.6	425.9	411.6	399.4	398.5	402.6	.	429.7
Norway	161	151	4.2	20.0	60.0	15.8	7.0	0.0	0.0	527.1	516.0	499.9	504.0	538.9	.	.
Portugal	149	148	26.6	38.8	22.0	12.6	1.0	0.0	0.0	464.7	471.0	467.3	458.1	435.5	.	.
Russian Federation	207	201	4.2	35.3	49.5	11.0	0.4	0.0	2.2	508.3	503.4	515.7	490.6	449.7	.	485.0
Slovenia	66	63	2.9	30.5	42.3	24.3	1.0	0.0	4.4	551.5	540.7	534.5	508.7	495.8	.	548.9
Sweden	217	207	7.5	28.7	46.8	17.0	3.6	0.0	1.4	492.6	463.5	445.0	448.0	445.1	.	497.1
United States	217	158	24.6	21.9	35.4	18.0	28.0	0.0	0.4	455.9	447.6	440.1	418.2	425.1	.	516.1
International Avg (n=9)	2003	1843	13.9	29.4	40.3	16.4	6.5	0.0	1.3	461.4	455.2	451.6	444.3	427.3	.	467.0

Question: How often do you have the following types of interactions with other teachers. Work with teachers from other grades to ensure continuity in learning
Location: TQG-09g (PTBG09G)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	5.7	20.7	43.7	29.9	8.5	0.0	1.0	351.3	373.8	377.2	376.1	350.4	.	417.0
Italy	279	253	6.8	39.3	40.8	13.0	8.4	0.0	1.3	355.3	369.9	396.3	375.6	302.6	.	380.0
Lebanon	257	254	32.5	35.8	22.4	9.2	0.5	0.0	0.0	411.4	406.1	406.1	431.8	402.6	.	.
Norway	161	151	2.0	14.0	44.0	39.9	7.0	0.0	0.0	529.7	506.9	494.7	514.1	538.9	.	.
Portugal	149	148	9.5	25.6	39.7	25.2	1.0	0.0	0.0	466.4	458.9	468.9	472.1	435.5	.	.
Russian Federation	207	202	8.3	47.6	40.3	3.8	0.4	0.0	1.7	541.6	506.5	510.5	430.2	449.7	.	488.0
Slovenia	66	64	3.8	23.1	45.1	28.0	1.0	0.0	2.0	534.9	545.7	535.1	511.4	495.8	.	556.4
Sweden	217	206	5.6	10.0	42.3	42.1	3.6	0.0	1.7	465.3	444.5	449.8	460.5	445.1	.	476.8
United States	217	158	8.9	13.3	27.1	50.7	28.0	0.0	0.4	497.6	421.8	453.5	430.7	425.1	.	516.1
International Avg (n=9)	2003	1846	9.2	25.5	38.4	26.9	6.5	0.0	0.9	461.5	448.2	454.7	444.7	427.3	.	472.4

Question: How often do you feel the following way about being a teacher. I am content with my profession as a teacher
Location: TQG-10a (PTBG10A)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	409	30.3	46.6	21.4	1.7	8.5	0.0	1.2	375.2	375.8	367.8	417.2	350.4	.	413.5
Italy	279	255	30.7	46.8	20.9	1.6	8.4	0.0	0.7	373.3	385.2	384.4	338.9	302.6	.	358.3
Lebanon	257	252	67.0	26.5	5.0	1.4	0.5	0.0	1.2	408.2	408.6	441.4	381.5	402.6	.	464.2
Norway	161	151	52.2	45.6	2.2	0.0	7.0	0.0	0.0	504.0	507.2	477.3	.	538.9	.	.
Portugal	149	148	21.9	49.9	24.9	3.3	1.0	0.0	0.0	469.2	470.5	451.3	515.5	435.5	.	.
Russian Federation	207	206	40.6	55.2	4.2	0.0	0.4	0.0	0.0	505.8	506.4	545.7	.	449.7	.	.
Slovenia	66	64	31.6	47.8	16.9	3.6	1.0	0.0	2.0	547.1	534.0	498.9	497.9	495.8	.	556.4
Sweden	217	208	31.3	51.8	16.5	0.4	3.6	0.0	1.1	459.8	450.8	455.3	480.9	445.1	.	500.0
United States	217	158	44.6	34.9	19.1	1.4	28.0	0.0	0.4	458.6	448.8	384.4	508.6	425.1	.	516.1
International Avg (n=9)	2003	1851	38.9	45.0	14.5	1.5	6.5	0.0	0.7	455.7	454.1	445.2	448.7	427.3	.	468.1

Question: How often do you feel the following way about being a teacher. I am satisfied with being a teacher at this school
Location: TQG-10b (PTBG10B)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	38.8	47.0	13.3	0.9	8.5	0.0	0.9	371.3	375.4	380.2	416.7	350.4	.	410.5
Italy	279	256	39.7	42.3	17.6	0.4	8.4	0.0	0.3	377.1	379.0	391.1	370.7	302.6	.	408.3
Lebanon	257	252	70.2	24.2	5.0	0.6	0.5	0.0	1.8	411.9	407.6	389.5	350.8	402.6	.	453.3
Norway	161	151	56.8	36.8	6.4	0.0	7.0	0.0	0.0	509.4	501.0	486.9	.	538.9	.	.
Portugal	149	148	42.7	39.4	17.0	0.9	1.0	0.0	0.0	475.1	463.7	454.3	454.2	435.5	.	.
Russian Federation	207	206	51.7	45.1	3.3	0.0	0.4	0.0	0.0	514.3	498.7	529.2	.	449.7	.	.
Slovenia	66	64	54.3	26.5	14.0	5.2	1.0	0.0	2.0	541.4	521.2	519.8	500.0	495.8	.	556.4
Sweden	217	208	35.0	48.6	15.1	1.2	3.6	0.0	1.1	460.3	454.7	436.3	504.3	445.1	.	500.0
United States	217	158	49.5	28.9	20.3	1.4	28.0	0.0	0.4	460.6	452.9	375.0	508.6	425.1	.	516.1
International Avg (n=9)	2003	1853	48.8	37.6	12.4	1.2	6.5	0.0	0.7	457.9	450.5	440.3	443.6	427.3	.	474.1

Question: How often do you feel the following way about being a teacher. I find my work full of meaning and purpose
Location: TQG-10c (PTBG10C)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	408	33.1	36.3	26.1	4.5	8.5	0.0	1.3	377.0	379.0	364.9	378.2	350.4	.	414.5
Italy	279	254	37.6	43.7	17.4	1.3	8.4	0.0	1.2	361.1	390.4	402.0	375.9	302.6	.	319.7
Lebanon	257	253	68.9	27.2	3.9	0.0	0.5	0.0	0.9	408.2	416.5	387.7	.	402.6	.	465.2
Norway	161	151	57.2	37.6	5.2	0.0	7.0	0.0	0.0	505.2	503.2	514.1	.	538.9	.	.
Portugal	149	148	41.6	46.1	11.1	1.2	1.0	0.0	0.0	466.9	465.9	472.5	455.7	435.5	.	.
Russian Federation	207	206	52.1	41.6	6.3	0.0	0.4	0.0	0.0	512.5	505.2	485.8	.	449.7	.	.
Slovenia	66	64	36.6	52.2	9.1	2.0	1.0	0.0	2.0	542.4	527.8	516.9	464.8	495.8	.	556.4
Sweden	217	208	62.6	34.5	2.5	0.4	3.6	0.0	1.1	465.1	436.0	430.7	542.9	445.1	.	500.0
United States	217	158	61.0	33.0	5.1	0.8	28.0	0.0	0.4	442.2	435.6	451.9	578.7	425.1	.	516.1
International Avg (n=9)	2003	1850	50.1	39.1	9.6	1.1	6.5	0.0	0.8	453.4	451.1	447.4	466.0	427.3	.	462.0

Question: How often do you feel the following way about being a teacher. I am enthusiastic about my job
Location: TQG-10d (PTBG10D)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	407	24.7	43.3	25.1	7.0	8.5	0.0	1.6	378.9	372.0	372.3	383.7	350.4	.	405.2
Italy	279	256	33.7	32.7	31.0	2.5	8.4	0.0	0.3	355.9	398.1	390.5	351.8	302.6	.	408.3
Lebanon	257	251	65.6	28.6	5.5	0.3	0.5	0.0	2.5	410.9	405.7	402.2	366.6	402.6	.	466.0
Norway	161	151	52.0	39.9	7.6	0.5	7.0	0.0	0.0	505.6	503.4	505.3	542.5	538.9	.	.
Portugal	149	148	21.3	44.1	27.7	6.8	1.0	0.0	0.0	471.4	469.7	456.9	475.8	435.5	.	.
Russian Federation	207	204	54.0	40.2	5.8	0.0	0.4	0.0	0.4	520.3	494.7	486.2	.	449.7	.	443.0
Slovenia	66	64	28.2	43.1	25.1	3.6	1.0	0.0	2.0	550.7	527.2	519.6	498.0	495.8	.	556.4
Sweden	217	208	37.9	46.4	15.1	0.7	3.6	0.0	1.1	462.7	446.1	455.2	555.2	445.1	.	500.0
United States	217	157	53.9	32.3	12.9	0.8	28.0	0.0	0.6	456.2	435.2	389.7	578.7	425.1	.	470.5
International Avg (n=9)	2003	1846	41.3	38.9	17.3	2.5	6.5	0.0	0.9	457.0	450.2	442.0	469.1	427.3	.	464.2

Question: How often do you feel the following way about being a teacher. My work inspires me
Location: TQG-10e (PTBG10E)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	406	29.9	40.7	23.6	5.8	8.5	0.0	1.7	380.4	369.6	373.1	385.8	350.4	.	405.6
Italy	279	256	37.2	40.4	19.7	2.7	8.4	0.0	0.3	376.6	377.0	391.8	398.3	302.6	.	408.3
Lebanon	257	249	58.1	33.4	8.2	0.3	0.8	0.0	2.3	406.6	414.8	416.0	290.0	419.3	.	425.7
Norway	161	151	47.1	37.4	15.0	0.5	7.0	0.0	0.0	506.0	500.6	510.8	542.5	538.9	.	.
Portugal	149	148	23.0	50.1	24.3	2.6	1.0	0.0	0.0	467.7	461.4	479.8	445.9	435.5	.	.
Russian Federation	207	206	44.3	35.8	19.9	0.0	0.4	0.0	0.0	519.6	495.3	503.7	.	449.7	.	.
Slovenia	66	64	23.6	52.4	20.4	3.6	1.0	0.0	2.0	560.1	528.7	508.6	497.9	495.8	.	556.4
Sweden	217	208	31.5	48.3	20.2	0.0	3.6	0.0	1.1	468.5	446.8	451.1	.	445.1	.	500.0
United States	217	158	50.9	28.5	19.6	1.0	28.0	0.0	0.4	440.5	449.3	427.5	567.6	425.1	.	516.1
International Avg (n=9)	2003	1846	38.4	40.8	19.0	1.8	6.5	0.0	0.9	458.4	449.3	451.4	446.8	429.1	.	468.7

Question: How often do you feel the following way about being a teacher. I am proud of the work I do
Location: TQG-10f (PTBG10F)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	408	26.8	41.0	24.5	7.7	8.5	0.0	1.3	373.7	375.3	371.3	384.7	350.4	.	412.8
Italy	279	255	38.3	36.2	22.4	3.0	8.4	0.0	0.7	370.8	385.3	386.3	406.9	302.6	.	358.3
Lebanon	257	252	73.9	22.2	4.0	0.0	0.5	0.0	2.2	408.0	414.4	390.7	.	402.6	.	476.0
Norway	161	150	50.3	39.0	10.2	0.5	7.0	0.0	0.5	508.2	500.1	509.8	542.5	538.9	.	415.6
Portugal	149	148	58.9	33.6	5.6	1.9	1.0	0.0	0.0	461.8	473.9	476.0	476.8	435.5	.	.
Russian Federation	207	206	43.9	42.0	13.6	0.5	0.4	0.0	0.0	519.8	496.9	499.2	591.0	449.7	.	.
Slovenia	66	64	35.4	40.5	22.5	1.6	1.0	0.0	2.0	554.7	530.2	494.0	539.7	495.8	.	556.4
Sweden	217	208	37.8	51.7	10.6	0.0	3.6	0.0	1.1	463.5	451.2	438.5	.	445.1	.	500.0
United States	217	158	56.8	32.3	10.9	0.0	28.0	0.0	0.4	457.0	433.9	385.1	.	425.1	.	516.1
International Avg (n=9)	2003	1849	46.9	37.6	13.8	1.7	6.5	0.0	0.9	457.5	451.2	439.0	490.3	427.3	.	462.2

Question: How often do you feel the following way about being a teacher. I am going to continue teaching for as long as I can
Location: TQG-10g (PTBG10G)

Country	Sample	Valid N	1.Very often %	2.Ofte n %	3.Some times %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very often Mean	2.Ofte n Mean	3.Some times Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	405	31.7	42.0	17.8	8.5	8.5	0.0	2.0	374.9	380.2	362.6	370.5	350.4	.	401.3
Italy	279	256	32.1	29.4	25.1	13.3	8.4	0.0	0.3	358.7	393.9	391.7	381.1	302.6	.	408.3
Lebanon	257	252	68.2	22.8	5.5	3.4	0.5	0.0	1.7	409.5	417.8	388.1	412.9	402.6	.	405.1
Norway	161	150	39.9	40.9	17.3	1.8	7.0	0.0	0.5	504.0	500.8	521.2	486.5	538.9	.	415.6
Portugal	149	148	59.3	26.6	11.1	3.0	1.0	0.0	0.0	469.7	460.7	465.4	472.0	435.5	.	.
Russian Federation	207	205	41.6	41.1	15.8	1.4	0.4	0.0	0.2	514.2	504.6	494.2	544.5	449.7	.	625.6
Slovenia	66	64	51.0	34.3	10.2	4.5	1.0	0.0	2.0	542.6	516.6	533.5	500.4	495.8	.	556.4
Sweden	217	205	29.9	37.1	26.4	6.5	3.6	0.0	2.1	443.7	448.0	468.4	488.6	445.1	.	469.1
United States	217	158	48.6	28.6	15.0	7.8	28.0	0.0	0.4	432.9	465.8	469.2	354.6	425.1	.	516.1
International Avg (n=9)	2003	1843	44.7	33.7	16.1	5.6	6.5	0.0	1.0	450.0	454.3	454.9	445.7	427.3	.	474.7

Question: Indicate the extent to which you agree or disagree with each of the following statements. There are too many students in the classes
Location: TQG-11a (PTBG11A)

Country	Sample	Valid N	1.Agree a lot %	2.Agree a little %	3.Disagree a little %	4.Disagree a lot %	Not Administered %	Not Applicable %	Omitted %	1.Agree a lot Mean	2.Agree a little Mean	3.Disagree a little Mean	4.Disagree a lot Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	411	51.9	37.5	9.1	1.5	8.5	0.0	0.6	377.3	371.8	379.3	344.4	350.4	.	414.3
Italy	279	255	31.8	48.9	12.5	6.7	8.4	0.0	0.7	379.4	385.6	376.8	354.9	302.6	.	383.2
Lebanon	257	252	17.1	28.1	22.5	32.3	0.5	0.0	0.7	422.1	409.4	395.4	415.0	402.6	.	405.6
Norway	161	151	13.8	46.4	23.9	16.0	7.0	0.0	0.0	511.9	502.2	513.7	493.6	538.9	.	.
Portugal	149	148	64.9	26.8	6.0	2.4	1.0	0.0	0.0	467.4	462.4	480.3	470.3	435.5	.	.
Russian Federation	207	206	4.2	31.0	44.4	20.5	0.4	0.0	0.0	495.5	510.5	493.8	536.4	449.7	.	.
Slovenia	66	64	13.4	62.9	22.3	1.3	1.0	0.0	2.0	539.3	530.9	526.5	519.6	495.8	.	556.4
Sweden	217	208	23.5	39.5	25.6	11.3	3.6	0.0	1.1	459.3	465.3	436.3	447.9	445.1	.	500.0
United States	217	158	22.4	36.7	22.5	18.4	28.0	0.0	0.4	410.4	455.0	431.0	466.4	425.1	.	516.1
International Avg (n=9)	2003	1853	27.0	39.8	21.0	12.3	6.5	0.0	0.6	451.4	454.8	448.1	449.8	427.3	.	462.6

Question: Indicate the extent to which you agree or disagree with each of the following statements. I have too much material to cover in class
Location: TQG-11b (PTBG11B)

Country	Sample	Valid N	1.Agree a lot %	2.Agree a little %	3.Disagree a little %	4.Disagree a lot %	Not Administered %	Not Applicable %	Omitted %	1.Agree a lot Mean	2.Agree a little Mean	3.Disagree a little Mean	4.Disagree a lot Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	411	51.2	28.5	18.3	2.0	8.5	0.0	0.6	374.5	376.8	371.9	384.3	350.4	.	414.3
Italy	279	255	44.7	41.0	11.8	2.5	8.4	0.0	0.7	384.7	381.2	357.0	400.8	302.6	.	383.2
Lebanon	257	242	31.3	44.9	14.5	9.3	0.5	0.0	4.5	413.6	409.2	405.6	421.5	402.6	.	389.1
Norway	161	151	25.0	46.8	21.8	6.4	7.0	0.0	0.0	490.7	509.6	513.2	497.5	538.9	.	.
Portugal	149	147	49.5	42.9	6.4	1.3	1.0	0.0	0.9	470.7	460.7	459.3	517.3	435.5	.	535.2
Russian Federation	207	204	14.3	42.7	36.6	6.4	0.4	0.0	1.2	493.1	492.9	527.3	532.1	449.7	.	485.3
Slovenia	66	64	10.3	47.1	40.7	1.9	1.0	0.0	2.0	521.2	533.4	527.8	587.0	495.8	.	556.4
Sweden	217	207	16.8	54.3	24.4	4.5	3.6	0.0	1.4	436.8	452.8	464.0	494.4	445.1	.	475.0
United States	217	158	23.3	38.5	30.5	7.8	28.0	0.0	0.4	410.7	429.2	471.0	481.5	425.1	.	516.1
International Avg (n=9)	2003	1839	29.6	43.0	22.8	4.7	6.5	0.0	1.3	444.0	449.5	455.2	479.6	427.3	.	469.3

Question: Indicate the extent to which you agree or disagree with each of the following statements. I have too many teaching hours
Location: TQG-11c (PTBG11C)

Country	Sample	Valid N	1.Agre e a lot %	2.Agre e a little %	3.Disa gree a little %	4.Disa gree a lot %	Not Admini stered %	Not Applic able %	Omitte d %	1.Agre e a lot Mean	2.Agre e a little Mean	3.Disa gree a little Mean	4.Disa gree a lot Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	409	5.9	20.9	60.7	12.5	8.5	0.0	1.0	366.3	368.0	377.5	376.5	350.4	.	415.8
Italy	279	254	3.9	18.2	35.0	42.8	8.4	0.0	1.0	401.7	388.5	375.0	380.1	302.6	.	356.0
Lebanon	257	248	16.3	31.3	33.2	19.3	0.5	0.0	2.1	425.6	405.9	414.1	399.8	402.6	.	390.2
Norway	161	151	2.5	32.8	40.4	24.3	7.0	0.0	0.0	496.9	504.7	504.5	506.5	538.9	.	.
Portugal	149	147	41.9	36.5	15.8	5.8	1.0	0.0	1.1	466.3	463.0	476.3	480.2	435.5	.	415.6
Russian Federation	207	206	11.9	24.9	34.1	29.1	0.4	0.0	0.0	486.0	513.4	511.2	507.7	449.7	.	.
Slovenia	66	64	13.2	24.2	49.7	12.9	1.0	0.0	2.0	547.2	534.7	520.9	545.7	495.8	.	556.4
Sweden	217	208	19.2	29.0	32.9	18.9	3.6	0.0	1.1	462.2	442.3	457.8	459.5	445.1	.	500.0
United States	217	158	13.1	29.7	37.9	19.3	28.0	0.0	0.4	382.6	427.9	456.0	474.8	425.1	.	516.1
International Avg (n=9)	2003	1845	14.2	27.5	37.7	20.5	6.5	0.0	1.0	448.3	449.8	454.8	459.0	427.3	.	450.0

Question: Indicate the extent to which you agree or disagree with each of the following statements. I need more time to prepare for class
Location: TQG-11d (PTBG11D)

Country	Sample	Valid N	1.Agree a lot %	2.Agree a little %	3.Disagree a little %	4.Disagree a lot %	Not Administered %	Not Applicable %	Omitted %	1.Agree a lot Mean	2.Agree a little Mean	3.Disagree a little Mean	4.Disagree a lot Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	408	16.3	38.2	40.2	5.2	8.5	0.0	1.2	365.9	379.2	373.6	378.4	350.4	.	407.4
Italy	279	254	22.2	48.7	19.6	9.5	8.4	0.0	0.9	376.2	379.1	372.9	409.2	302.6	.	417.2
Lebanon	257	248	16.1	30.0	26.2	27.7	0.5	0.0	2.4	400.9	401.8	420.8	416.5	402.6	.	389.0
Norway	161	151	8.0	49.6	31.7	10.7	7.0	0.0	0.0	521.3	501.2	505.4	507.9	538.9	.	.
Portugal	149	147	53.8	33.1	10.2	2.9	1.0	0.0	0.9	466.6	460.3	479.6	481.6	435.5	.	535.2
Russian Federation	207	202	10.4	38.9	37.6	13.1	0.4	0.0	2.5	493.4	505.2	516.6	500.5	449.7	.	511.3
Slovenia	66	64	5.0	38.3	50.6	6.0	1.0	0.0	2.0	513.8	525.6	533.5	556.7	495.8	.	556.4
Sweden	217	208	32.0	40.7	22.3	4.9	3.6	0.0	1.1	449.9	448.0	465.9	486.4	445.1	.	500.0
United States	217	158	29.0	38.5	24.1	8.5	28.0	0.0	0.4	418.1	423.3	486.0	480.2	425.1	.	516.1
International Avg (n=9)	2003	1840	21.4	39.6	29.2	9.8	6.5	0.0	1.3	445.1	447.1	461.6	468.6	427.3	.	479.1

Question: Indicate the extent to which you agree or disagree with each of the following statements. I need more time to assist individual students
Location: TQG-11e (PTBG11E)

Country	Sample	Valid N	1.Agre e a lot %	2.Agre e a little %	3.Disa gree a little %	4.Disa gree a lot %	Not Admini stered %	Not Applic able %	Omitte d %	1.Agre e a lot Mean	2.Agre e a little Mean	3.Disa gree a little Mean	4.Disa gree a lot Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	409	55.8	41.1	2.7	0.5	8.5	0.0	1.0	370.9	379.5	384.8	346.9	350.4	.	415.8
Italy	279	254	46.8	48.6	4.4	0.3	8.4	0.0	0.9	372.5	389.5	360.4	307.1	302.6	.	417.2
Lebanon	257	247	33.3	43.3	12.8	10.6	0.5	0.0	3.0	414.4	407.7	401.6	422.7	402.6	.	392.3
Norway	161	151	27.4	57.3	13.9	1.4	7.0	0.0	0.0	500.5	506.6	505.5	516.0	538.9	.	.
Portugal	149	148	70.7	26.0	2.8	0.5	1.0	0.0	0.0	463.6	472.9	493.3	478.1	435.5	.	.
Russian Federation	207	204	18.5	58.6	20.4	2.5	0.4	0.0	0.9	538.2	498.7	508.0	504.7	449.7	.	476.6
Slovenia	66	64	13.8	54.7	30.2	1.3	1.0	0.0	2.0	503.0	526.6	554.0	470.9	495.8	.	556.4
Sweden	217	208	49.1	40.9	10.0	0.0	3.6	0.0	1.1	458.1	445.6	473.4	.	445.1	.	500.0
United States	217	158	38.5	40.1	14.6	6.9	28.0	0.0	0.4	421.7	433.5	506.1	465.0	425.1	.	516.1
International Avg (n=9)	2003	1843	39.3	45.6	12.4	2.6	6.5	0.0	1.0	449.2	451.2	465.2	438.9	427.3	.	467.8

Question: Indicate the extent to which you agree or disagree with each of the following statements. I feel too much pressure from parents
Location: TQG-11f (PTBG11F)

Country	Sample	Valid N	1.Agre e a lot %	2.Agre e a little %	3.Disa gree a little %	4.Disa gree a lot %	Not Admini stered %	Not Applic able %	Omitte d %	1.Agre e a lot Mean	2.Agre e a little Mean	3.Disa gree a little Mean	4.Disa gree a lot Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	409	5.6	21.5	54.6	18.3	8.5	0.0	1.0	390.7	372.4	376.3	367.8	350.4	.	415.8
Italy	279	254	13.6	24.8	31.8	29.8	8.4	0.0	0.9	380.3	376.8	376.7	386.3	302.6	.	417.2
Lebanon	257	250	4.7	13.1	40.9	41.4	0.5	0.0	2.0	404.9	387.8	412.1	416.5	402.6	.	400.4
Norway	161	151	0.0	4.5	37.4	58.1	7.0	0.0	0.0	.	492.0	510.9	502.0	538.9	.	.
Portugal	149	148	9.0	30.3	40.9	19.8	1.0	0.0	0.0	461.9	459.6	473.5	466.8	435.5	.	.
Russian Federation	207	205	1.2	4.9	41.4	52.5	0.4	0.0	0.6	534.8	481.4	505.1	510.3	449.7	.	621.9
Slovenia	66	64	7.8	24.1	52.5	15.5	1.0	0.0	2.0	440.1	530.9	540.5	544.0	495.8	.	556.4
Sweden	217	208	3.6	10.7	51.6	34.0	3.6	0.0	1.1	422.5	446.8	455.8	458.4	445.1	.	500.0
United States	217	158	11.1	23.6	39.7	25.7	28.0	0.0	0.4	386.8	476.8	448.4	422.8	425.1	.	516.1
International Avg (n=9)	2003	1847	6.3	17.5	43.4	32.8	6.5	0.0	0.9	427.8	447.2	455.5	452.8	427.3	.	489.7

Question: Indicate the extent to which you agree or disagree with each of the following statements. I have difficulty keeping up with all of the changes to the curriculum

Location: TQG-11g (PTBG11G)

Country	Sample	Valid N	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte	1.Agre	2.Agre	3.Disa	4.Disa	Not	Not	Omitte
			e a lot %	e a little %	gree a little %	gree a lot %	Admini stered %	Applic able %		e a lot Mean	e a little Mean	gree a little Mean	gree a lot Mean	Admini stered Mean	Applic able Mean	
France	450	406	4.1	22.7	54.4	18.7	8.5	0.0	1.5	376.8	357.0	379.5	381.4	350.4	.	405.0
Italy	279	255	7.2	40.0	32.3	20.5	8.4	0.0	0.7	387.2	378.9	369.9	397.6	302.6	.	383.2
Lebanon	257	249	4.3	13.9	24.8	57.1	0.5	0.0	2.1	421.3	398.9	411.3	412.0	402.6	.	399.9
Norway	161	151	2.6	13.6	47.0	36.8	7.0	0.0	0.0	489.3	507.8	504.3	505.7	538.9	.	.
Portugal	149	148	3.9	16.6	35.9	43.6	1.0	0.0	0.0	462.6	469.4	461.0	471.2	435.5	.	.
Russian Federation	207	206	5.1	19.2	52.0	23.7	0.4	0.0	0.0	606.1	520.8	501.6	489.3	449.7	.	.
Slovenia	66	64	6.4	4.1	78.7	10.8	1.0	0.0	2.0	489.8	559.0	530.3	549.2	495.8	.	556.4
Sweden	217	208	4.3	19.6	52.3	23.8	3.6	0.0	1.1	469.3	455.6	458.8	441.5	445.1	.	500.0
United States	217	158	4.2	30.7	45.3	19.8	28.0	0.0	0.4	396.0	434.3	442.4	461.2	425.1	.	516.1
International Avg (n=9)	2003	1845	4.7	20.0	47.0	28.3	6.5	0.0	0.9	455.4	453.5	451.0	456.6	427.3	.	460.1

Question: Indicate the extent to which you agree or disagree with each of the following statements. I have too many administrative tasks
Location: TQG-11h (PTBG11H)

Country	Sample	Valid N	1.Agree a lot %	2.Agree a little %	3.Disagree a little %	4.Disagree a lot %	Not Administered %	Not Applicable %	Omitted %	1.Agree a lot Mean	2.Agree a little Mean	3.Disagree a little Mean	4.Disagree a lot Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	408	13.7	40.8	39.3	6.2	8.5	0.0	1.3	373.5	372.6	374.5	391.4	350.4	.	411.4
Italy	279	254	22.0	39.1	23.1	15.8	8.4	0.0	1.2	388.8	394.9	358.1	365.6	302.6	.	380.0
Lebanon	257	241	5.5	25.2	25.9	43.5	0.5	0.0	6.4	385.4	410.7	411.4	410.4	402.6	.	422.4
Norway	161	151	14.1	42.7	29.9	13.3	7.0	0.0	0.0	499.4	505.9	498.4	521.9	538.9	.	.
Portugal	149	148	40.6	38.2	11.7	9.4	1.0	0.0	0.0	465.0	463.5	477.2	476.2	435.5	.	.
Russian Federation	207	206	4.9	9.9	34.3	50.9	0.4	0.0	0.0	561.0	507.5	521.5	493.5	449.7	.	.
Slovenia	66	64	22.4	51.5	26.1	0.0	1.0	0.0	2.0	511.0	528.8	552.2	.	495.8	.	556.4
Sweden	217	208	35.1	41.5	18.8	4.6	3.6	0.0	1.1	464.2	450.4	442.9	464.8	445.1	.	500.0
United States	217	158	18.6	33.9	37.1	10.4	28.0	0.0	0.4	420.2	450.9	437.0	467.2	425.1	.	516.1
International Avg (n=9)	2003	1838	19.7	35.9	27.3	17.1	6.5	0.0	1.4	452.0	453.9	452.6	448.9	427.3	.	464.4

Question: How many students are in this class
Location: TQG-12 (PTBG12)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	400	9.3	0.0	1.3	30.1	35.0	4.0	16.0	20.0	29.0	32.0	35.0	35.0	36.0	38.0
Italy	279	245	8.4	0.0	3.6	21.9	22.0	2.0	15.0	16.0	19.0	22.0	25.0	27.0	28.0	30.0
Lebanon	257	249	1.1	0.0	2.0	16.4	7.0	2.0	5.0	7.0	9.0	15.0	23.0	28.0	30.0	40.0
Norway	161	151	7.0	0.0	0.0	18.3	14.0	4.0	8.0	9.0	14.0	19.0	22.0	27.0	30.0	31.0
Portugal	149	144	1.0	0.0	3.8	20.7	23.0	2.0	6.0	10.0	17.0	22.0	27.0	29.0	30.0	32.0
Russian Federation	207	206	0.4	0.0	0.0	19.9	25.0	4.0	9.0	10.0	15.0	21.0	25.0	28.0	29.0	32.0
Slovenia	66	64	1.0	0.0	2.0	22.2	18.0	6.0	12.0	14.0	18.0	23.0	26.0	30.0	32.0	33.0
Sweden	217	207	3.6	0.0	0.8	22.4	19.0	3.0	11.0	14.0	17.0	23.0	27.0	31.0	32.0	36.0
United States	217	156	28.1	0.0	0.6	24.4	20.0	4.0	12.0	15.0	19.0	24.0	29.0	36.0	38.0	56.0
International Avg (n=9)	2003	1822	6.7	0.0	1.6	21.8	20.3	3.4	10.4	12.8	17.4	22.3	26.6	30.1	31.7	36.4

Question: How many students in this class experience difficulties understanding spoken <language of test>
Location: TQG-13 (PTBG13)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	396	9.3	0.0	2.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	31.0
Italy	279	221	8.4	0.0	13.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.0	20.0
Lebanon	257	237	1.1	0.0	7.7	3.7	0.0	0.0	0.0	0.0	0.0	2.0	5.0	10.0	15.0	24.0
Norway	161	151	7.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	3.0
Portugal	149	144	1.0	0.0	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.0	8.0	15.0
Russian Federation	207	205	0.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
Slovenia	66	64	1.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
Sweden	217	203	3.6	0.0	2.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	15.0
United States	217	156	28.1	0.0	0.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	4.0	25.0
International Avg (n=9)	2003	1777	6.7	0.0	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.2	0.9	2.7	4.2	16.1

Question: How often do you do the following in teaching this class. Relate the lesson to students' daily lives
Location: TQG-14a (PTBG14A)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lesson s %	3.Some lesson s %	4.Never r %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every or almost every lesson Mean	2.About half the lesson s Mean	3.Some lesson s Mean	4.Never r Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	39.4	22.0	38.0	0.6	9.3	0.0	1.9	374.4	382.6	369.9	373.5	355.6	.	390.7
Italy	279	255	35.3	27.3	36.8	0.7	8.4	0.0	0.6	375.5	390.4	376.0	432.9	302.6	.	431.8
Lebanon	257	254	73.7	15.9	10.0	0.4	0.5	0.0	0.0	412.4	412.3	388.5	457.8	402.6	.	.
Norway	161	150	11.1	33.0	55.3	0.6	7.0	0.0	1.1	527.6	499.3	504.6	566.4	538.9	.	428.8
Portugal	149	148	60.0	24.6	15.4	0.0	1.0	0.0	0.0	463.6	471.8	472.1	.	435.5	.	.
Russian Federation	207	204	45.7	36.1	18.2	0.0	0.4	0.0	0.8	502.2	513.2	508.3	.	449.7	.	562.7
Slovenia	66	64	45.7	32.0	22.3	0.0	1.0	0.0	2.0	530.5	538.5	520.9	.	495.8	.	556.4
Sweden	217	209	14.9	35.6	49.2	0.4	3.6	0.0	0.0	459.8	466.2	446.2	359.8	445.1	.	.
United States	217	156	50.8	37.1	12.1	0.0	28.1	0.0	0.7	439.5	445.9	436.9	.	425.9	.	467.7
International Avg (n=9)	2003	1837	41.8	29.3	28.6	0.3	6.6	0.0	0.8	453.9	457.8	447.0	438.1	428.0	.	473.0

Question: How often do you do the following in teaching this class. Ask students to explain their answers
Location: TQG-14b (PTBG14B)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini- stered %	Not Applic- able %	Omitte- d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini- stered Mean	Not Applic- able Mean	Omitte- d Mean
France	450	399	62.5	23.6	13.6	0.3	9.3	0.0	1.6	375.1	378.7	365.8	345.1	355.6	.	389.5
Italy	279	255	61.4	23.0	15.6	0.0	8.4	0.0	0.6	365.7	399.8	407.8	.	302.6	.	431.8
Lebanon	257	253	75.4	17.9	6.7	0.0	0.5	0.0	0.1	409.6	408.8	420.7	.	402.6	.	357.4
Norway	161	151	29.7	29.5	40.2	0.6	7.0	0.0	0.0	516.9	501.0	497.5	593.8	538.9	.	.
Portugal	149	148	60.8	24.8	13.6	0.8	1.0	0.0	0.0	459.6	477.9	478.6	482.5	435.5	.	.
Russian Federation	207	204	73.5	20.1	6.4	0.0	0.4	0.0	1.0	506.9	516.9	478.1	.	449.7	.	575.7
Slovenia	66	64	34.1	44.9	21.0	0.0	1.0	0.0	2.0	545.8	521.7	526.3	.	495.8	.	556.4
Sweden	217	209	38.5	36.4	24.8	0.3	3.6	0.0	0.0	469.8	437.1	458.5	444.9	445.1	.	.
United States	217	156	57.5	31.1	11.4	0.0	28.1	0.0	0.7	425.3	466.7	455.5	.	425.9	.	467.7
International Avg (n=9)	2003	1839	54.8	27.9	17.0	0.2	6.6	0.0	0.7	452.8	456.5	454.3	466.6	428.0	.	463.1

Question: How often do you do the following in teaching this class. Ask students to complete challenging exercises that require them to go beyond the instruction

Location: TQG-14c (PTBG14C)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	399	3.3	14.2	67.1	15.4	9.3	0.0	1.6	391.0	373.3	379.5	350.6	355.6	.	389.5
Italy	279	255	17.2	33.3	42.5	6.9	8.4	0.0	0.6	348.1	400.3	377.1	381.0	302.6	.	431.8
Lebanon	257	254	55.5	27.9	15.7	0.9	0.5	0.0	0.0	402.5	428.6	410.5	306.3	402.6	.	.
Norway	161	151	7.9	24.8	61.8	5.5	7.0	0.0	0.0	497.6	510.0	500.7	539.5	538.9	.	.
Portugal	149	148	12.2	18.4	66.6	2.9	1.0	0.0	0.0	480.1	449.8	467.9	498.5	435.5	.	.
Russian Federation	207	205	18.6	43.0	38.4	0.0	0.4	0.0	0.5	543.0	510.2	486.8	.	449.7	.	597.9
Slovenia	66	64	1.3	28.1	69.0	1.6	1.0	0.0	2.0	548.0	538.3	527.3	539.7	495.8	.	556.4
Sweden	217	209	3.2	18.9	69.4	8.6	3.6	0.0	0.0	423.0	470.7	456.3	421.9	445.1	.	.
United States	217	156	47.2	37.9	14.0	0.9	28.1	0.0	0.7	439.5	444.2	439.1	482.0	425.9	.	467.7
International Avg (n=9)	2003	1841	18.5	27.4	49.4	4.7	6.6	0.0	0.6	452.5	458.4	449.5	439.9	428.0	.	488.7

Question: How often do you do the following in teaching this class. Encourage classroom discussions among students
Location: TQG-14d (PTBG14D)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini- stered %	Not Applic- able %	Omitte- d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini- stered Mean	Not Applic- able Mean	Omitte- d Mean
France	450	399	9.5	19.5	54.6	16.4	9.3	0.0	1.6	380.1	385.6	370.6	371.3	355.6	.	389.5
Italy	279	255	33.2	32.0	30.2	4.6	8.4	0.0	0.6	355.7	384.9	387.7	473.8	302.6	.	431.8
Lebanon	257	252	54.9	25.2	18.7	1.2	0.5	0.0	1.0	412.0	406.8	404.3	445.2	402.6	.	462.7
Norway	161	151	19.4	38.0	41.1	1.5	7.0	0.0	0.0	521.9	496.1	503.3	550.9	538.9	.	.
Portugal	149	148	17.0	24.7	53.9	4.5	1.0	0.0	0.0	463.9	470.0	466.1	470.5	435.5	.	.
Russian Federation	207	204	38.3	29.3	32.1	0.3	0.4	0.0	0.8	521.3	491.2	504.4	612.2	449.7	.	562.7
Slovenia	66	64	16.8	32.2	51.1	0.0	1.0	0.0	2.0	553.2	525.0	527.3	.	495.8	.	556.4
Sweden	217	209	37.7	26.0	34.2	2.2	3.6	0.0	0.0	470.2	431.2	456.4	454.9	445.1	.	.
United States	217	156	60.5	27.6	11.9	0.0	28.1	0.0	0.7	446.8	427.7	447.1	.	425.9	.	467.7
International Avg (n=9)	2003	1838	31.9	28.3	36.4	3.4	6.6	0.0	0.7	458.4	446.5	451.9	482.7	428.0	.	478.5

Question: How often do you do the following in teaching this class. Link new content to students' prior knowledge
Location: TQG-14e (PTBG14E)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini- stered %	Not Applic- able %	Omitte- d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini- stered Mean	Not Applic- able Mean	Omitte- d Mean
France	450	399	56.4	33.9	9.5	0.1	9.3	0.0	1.6	377.0	371.8	369.2	416.5	355.6	.	389.5
Italy	279	255	74.6	21.6	3.8	0.0	8.4	0.0	0.6	378.0	390.9	360.1	.	302.6	.	431.8
Lebanon	257	253	73.6	16.0	10.0	0.4	0.5	0.0	0.3	411.3	403.6	413.7	457.8	402.6	.	306.9
Norway	161	151	42.3	36.9	20.8	0.0	7.0	0.0	0.0	507.7	497.6	512.2	.	538.9	.	.
Portugal	149	148	72.3	23.1	4.5	0.0	1.0	0.0	0.0	465.0	469.3	485.8	.	435.5	.	.
Russian Federation	207	205	86.4	13.1	0.5	0.0	0.4	0.0	0.5	513.7	466.5	475.6	.	449.7	.	597.9
Slovenia	66	63	68.5	31.5	0.0	0.0	1.0	0.0	3.9	523.8	542.7	.	.	495.8	.	570.6
Sweden	217	208	58.7	34.9	6.3	0.0	3.6	0.0	0.6	454.5	460.6	425.8	.	445.1	.	494.8
United States	217	156	76.7	18.3	4.3	0.7	28.1	0.0	0.7	448.1	410.6	464.2	393.6	425.9	.	467.7
International Avg (n=9)	2003	1838	67.7	25.5	6.6	0.1	6.6	0.0	0.9	453.2	446.0	438.3	422.6	428.0	.	465.6

Question: How often do you do the following in teaching this class. Ask students to decide their own problem solving procedures
Location: TQG-14f (PTBG14F)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini- stered %	Not Applic- able %	Omitte- d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini- stered Mean	Not Applic- able Mean	Omitte- d Mean
France	450	394	18.7	34.9	42.0	4.4	9.3	0.0	2.9	362.9	376.7	378.8	359.8	355.6	.	393.6
Italy	279	255	42.7	37.4	20.0	0.0	8.4	0.0	0.6	358.1	399.5	390.9	.	302.6	.	431.8
Lebanon	257	253	56.5	28.5	13.8	1.3	0.5	0.0	0.3	407.2	417.5	408.4	393.0	402.6	.	444.0
Norway	161	151	8.1	21.5	59.3	11.1	7.0	0.0	0.0	536.1	495.9	500.6	522.3	538.9	.	.
Portugal	149	148	42.8	33.8	23.0	0.4	1.0	0.0	0.0	469.7	453.6	479.9	548.8	435.5	.	.
Russian Federation	207	205	47.9	33.0	19.1	0.0	0.4	0.0	0.5	506.1	523.1	482.9	.	449.7	.	597.9
Slovenia	66	64	18.8	54.8	26.4	0.0	1.0	0.0	2.0	560.2	520.8	531.0	.	495.8	.	556.4
Sweden	217	208	11.7	28.7	56.3	3.3	3.6	0.0	0.2	458.9	464.0	449.8	450.0	445.1	.	480.9
United States	217	156	43.9	39.6	15.4	1.1	28.1	0.0	0.7	415.2	462.1	471.0	347.6	425.9	.	467.7
International Avg (n=9)	2003	1834	32.3	34.7	30.6	2.4	6.6	0.0	0.8	452.7	457.0	454.8	436.9	428.0	.	481.8

Question: How often do you do the following in teaching this class. Encourage students to express their ideas in class
Location: TQG-14g (PTBG14G)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	400	48.1	28.2	23.3	0.4	9.3	0.0	1.3	374.7	380.5	367.9	378.4	355.6	.	381.6
Italy	279	254	52.3	31.6	15.0	1.1	8.4	0.0	0.9	371.4	375.9	411.1	464.0	302.6	.	450.2
Lebanon	257	254	78.9	17.0	3.2	0.9	0.5	0.0	0.0	412.8	396.5	397.3	488.4	402.6	.	.
Norway	161	151	13.9	25.9	54.4	5.7	7.0	0.0	0.0	511.9	507.8	500.8	513.1	538.9	.	.
Portugal	149	148	65.5	22.8	11.7	0.0	1.0	0.0	0.0	465.7	473.8	460.4	.	435.5	.	.
Russian Federation	207	205	69.3	21.5	9.2	0.0	0.4	0.0	0.5	511.8	487.7	519.2	.	449.7	.	597.9
Slovenia	66	64	38.3	49.1	12.6	0.0	1.0	0.0	2.0	527.6	533.6	530.3	.	495.8	.	556.4
Sweden	217	209	51.5	28.2	20.3	0.0	3.6	0.0	0.0	464.8	446.6	442.0	.	445.1	.	.
United States	217	156	69.6	25.9	4.5	0.0	28.1	0.0	0.7	431.0	471.2	434.8	.	425.9	.	467.7
International Avg (n=9)	2003	1841	54.2	27.8	17.1	0.9	6.6	0.0	0.6	452.4	452.6	451.5	461.0	428.0	.	490.8

Question: In your view, to what extent do the following limit how you teach this class. Students lacking prerequisite mathematics knowledge or skills
Location: TQG-15a (PTBG15A)

Country	Sample	Valid N	1.Not at all %	2.Some %	3.A lot %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not at all Mean	2.Some Mean	3.A lot Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	400	2.7	25.1	72.2	9.3	0.0	1.3	442.2	395.2	365.1	355.6	.	381.6
Italy	279	253	10.7	51.7	37.6	8.4	0.0	1.3	437.0	382.4	362.4	302.6	.	360.7
Lebanon	257	250	18.4	60.5	21.1	0.5	0.0	1.5	440.8	402.5	406.0	402.6	.	405.7
Norway	161	151	15.1	75.2	9.7	7.0	0.0	0.0	536.4	506.0	446.6	538.9	.	.
Portugal	149	148	7.6	57.7	34.6	1.0	0.0	0.0	519.2	463.9	460.5	435.5	.	.
Russian Federation	207	204	11.9	52.8	35.3	0.4	0.0	1.0	492.6	499.6	523.9	449.7	.	551.3
Slovenia	66	64	11.9	71.9	16.2	1.0	0.0	2.0	571.5	526.1	522.3	495.8	.	556.4
Sweden	217	209	12.5	64.4	23.0	3.6	0.0	0.0	513.7	459.1	411.7	445.1	.	.
United States	217	155	24.6	51.0	24.5	28.1	0.0	0.9	490.1	457.6	359.1	425.9	.	470.9
International Avg (n=9)	2003	1834	12.8	56.7	30.5	6.6	0.0	0.9	493.7	454.7	428.6	428.0	.	454.4

Question: In your view, to what extent do the following limit how you teach this class. Students suffering from lack of basic nutrition
Location: TQG-15b (PTBG15B)

Country	Sample	Valid N	1.Not at all %	2.Some %	3.A lot %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not at all Mean	2.Some Mean	3.A lot Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	394	96.3	3.4	0.2	9.3	0.0	2.5	376.2	342.0	264.9	355.6	.	377.5
Italy	279	250	76.8	20.4	2.8	8.4	0.0	2.4	384.7	382.5	260.0	302.6	.	369.1
Lebanon	257	244	68.2	28.3	3.4	0.5	0.0	5.2	416.8	391.8	423.8	402.6	.	414.8
Norway	161	150	85.7	14.3	0.0	7.0	0.0	1.1	509.3	484.8	.	538.9	.	428.8
Portugal	149	147	85.1	7.4	7.6	1.0	0.0	0.8	466.3	459.6	478.2	435.5	.	491.1
Russian Federation	207	202	70.9	26.0	3.1	0.4	0.0	2.3	505.5	511.7	507.1	449.7	.	533.0
Slovenia	66	64	84.5	15.5	0.0	1.0	0.0	2.0	530.1	535.0	.	495.8	.	556.4
Sweden	217	207	87.3	10.6	2.1	3.6	0.0	0.8	457.4	444.8	407.3	445.1	.	457.2
United States	217	155	88.4	10.6	1.0	28.1	0.0	0.9	441.3	437.0	503.5	425.9	.	470.9
International Avg (n=9)	2003	1813	82.6	15.2	2.3	6.6	0.0	2.0	454.2	443.2	406.4	428.0	.	455.4

Question: In your view, to what extent do the following limit how you teach this class. Students suffering from not enough sleep
Location: TQG-15c (PTBG15C)

Country	Sample	Valid N	1.Not at all %	2.Some %	3.A lot %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not at all Mean	2.Some Mean	3.A lot Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	27.2	67.1	5.7	9.3	0.0	1.9	389.7	370.8	345.6	355.6	.	389.3
Italy	279	251	42.3	44.2	13.5	8.4	0.0	1.9	391.9	376.0	360.8	302.6	.	369.0
Lebanon	257	249	29.0	60.8	10.2	0.5	0.0	2.9	410.1	411.2	398.2	402.6	.	431.2
Norway	161	150	45.4	50.0	4.5	7.0	0.0	1.1	516.0	499.6	471.9	538.9	.	428.8
Portugal	149	146	25.7	56.2	18.1	1.0	0.0	1.5	481.1	458.9	472.9	435.5	.	454.3
Russian Federation	207	202	43.6	47.1	9.3	0.4	0.0	2.3	487.4	517.7	546.7	449.7	.	533.0
Slovenia	66	64	38.3	54.7	6.9	1.0	0.0	2.0	550.5	518.4	520.7	495.8	.	556.4
Sweden	217	209	31.8	60.9	7.3	3.6	0.0	0.0	473.9	448.2	429.1	445.1	.	.
United States	217	155	18.2	59.0	22.8	28.1	0.0	0.9	467.1	451.9	394.2	425.9	.	470.9
International Avg (n=9)	2003	1823	33.5	55.6	10.9	6.6	0.0	1.6	463.1	450.3	437.8	428.0	.	454.1

Question: In your view, to what extent do the following limit how you teach this class. Students with physical disabilities
Location: TQG-15d (PTBG15D)

Country	Sample	Valid N	1.Not at all %	2.Some %	3.A lot %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not at all Mean	2.Some Mean	3.A lot Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	392	93.6	6.0	0.4	9.3	0.0	2.8	374.8	376.5	377.1	355.6	.	373.6
Italy	279	253	85.0	13.8	1.2	8.4	0.0	1.3	386.1	372.3	102.2	302.6	.	360.7
Lebanon	257	248	74.8	23.2	2.0	0.6	0.0	2.9	413.0	397.7	431.2	361.2	.	431.2
Norway	161	151	96.6	3.4	0.0	7.0	0.0	0.0	504.5	515.0	.	538.9	.	.
Portugal	149	147	83.8	15.8	0.4	1.0	0.0	0.8	465.4	473.8	455.6	435.5	.	491.1
Russian Federation	207	201	71.9	21.7	6.4	0.4	0.0	2.8	497.4	527.7	546.2	449.7	.	530.1
Slovenia	66	64	90.8	9.2	0.0	1.0	0.0	2.0	530.4	535.7	.	495.8	.	556.4
Sweden	217	208	96.2	3.6	0.3	3.6	0.0	0.4	456.0	422.7	535.2	445.1	.	446.1
United States	217	155	88.8	11.2	0.0	28.1	0.0	0.9	449.5	377.7	.	425.9	.	470.9
International Avg (n=9)	2003	1819	86.8	12.0	1.2	6.6	0.0	1.5	453.0	444.3	407.9	423.4	.	457.5

Question: In your view, to what extent do the following limit how you teach this class. Students with mental, emotional, or psychological disabilities
Location: TQG-15e (PTBG15E)

Country	Sample	Valid N	1.Not at all %	2.Some %	3.A lot %	Not Admini stered %	Not Applic able %	Omitte d %	1.Not at all Mean	2.Some Mean	3.A lot Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	81.7	15.9	2.4	9.3	0.0	2.0	378.2	365.6	324.6	355.6	.	369.0
Italy	279	253	56.2	34.5	9.2	8.4	0.0	1.3	386.6	375.9	362.7	302.6	.	360.7
Lebanon	257	248	58.5	34.8	6.7	0.5	0.0	4.2	420.4	394.2	380.5	402.6	.	446.9
Norway	161	150	82.3	17.7	0.0	7.0	0.0	1.1	506.0	504.7	.	538.9	.	428.8
Portugal	149	147	78.4	13.9	7.7	1.0	0.0	0.8	469.1	454.4	465.2	435.5	.	491.1
Russian Federation	207	202	42.9	37.1	20.0	0.4	0.0	2.3	493.3	519.4	514.2	449.7	.	533.0
Slovenia	66	64	58.1	41.9	0.0	1.0	0.0	2.0	533.0	527.9	.	495.8	.	556.4
Sweden	217	208	72.9	26.4	0.7	3.6	0.0	0.2	457.8	449.8	344.5	445.1	.	527.3
United States	217	155	58.8	41.2	0.0	28.1	0.0	0.9	455.0	422.2	.	425.9	.	470.9
International Avg (n=9)	2003	1824	65.5	29.3	5.2	6.6	0.0	1.6	455.5	446.0	398.6	428.0	.	464.9

Question: In a typical week, how much time do you spend teaching physics to the students in this class
Location: TQP-16 (PTBP16)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	392	9.3	0.0	3.1	189.9	60.0	0.0	60.0	60.0	150.0	180.0	220.0	280.0	300.0	1000
Italy	279	252	8.4	0.0	1.4	175.0	180.0	3.0	135.0	150.0	170.0	180.0	180.0	180.0	180.0	600.0
Lebanon	257	247	0.5	0.0	3.2	385.8	420.0	180.0	300.0	330.0	350.0	385.0	420.0	420.0	480.0	750.0
Norway	161	150	7.0	0.0	0.6	222.7	225.0	5.0	180.0	200.0	225.0	225.0	225.0	240.0	300.0	300.0
Portugal	149	148	1.0	0.0	0.0	196.3	180.0	90.0	150.0	150.0	180.0	180.0	180.0	270.0	315.0	540.0
Russian Federation	207	206	0.4	0.0	0.0	234.3	225.0	45.0	200.0	200.0	225.0	225.0	240.0	300.0	300.0	400.0
Slovenia	66	64	1.0	0.0	2.0	195.9	180.0	90.0	135.0	135.0	180.0	180.0	180.0	225.0	540.0	540.0
Sweden	217	208	3.6	0.0	0.8	176.5	160.0	75.0	125.0	130.0	150.0	160.0	195.0	240.0	250.0	360.0
United States	217	150	28.1	0.0	3.4	265.7	250.0	7.0	150.0	200.0	220.0	250.0	270.0	330.0	450.0	1000
International Avg (n=9)	2003	1817	6.6	0.0	1.6	226.9	208.9	55.0	159.4	172.8	205.6	218.3	234.4	276.1	346.1	610.0

Question: How many minutes per week do you usually spend preparing to teach this class
Location: TQP-17 (PTBP17)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	386	9.3	0.0	4.3	315.1	300.0	0.0	90.0	120.0	180.0	300.0	420.0	600.0	700.0	1000
Italy	279	251	8.4	0.0	1.8	208.1	180.0	5.0	60.0	90.0	120.0	180.0	300.0	360.0	480.0	720.0
Lebanon	257	239	0.5	0.0	7.5	263.0	120.0	0.0	60.0	90.0	120.0	200.0	350.0	500.0	600.0	840.0
Norway	161	151	7.0	0.0	0.0	189.3	200.0	40.0	60.0	90.0	120.0	180.0	240.0	300.0	360.0	675.0
Portugal	149	146	1.0	0.0	1.5	250.4	180.0	30.0	60.0	90.0	150.0	200.0	300.0	450.0	500.0	900.0
Russian Federation	207	203	0.4	0.0	1.9	288.5	300.0	30.0	100.0	120.0	180.0	300.0	360.0	480.0	600.0	900.0
Slovenia	66	64	1.0	0.0	2.0	146.0	90.0	30.0	45.0	60.0	90.0	120.0	200.0	270.0	300.0	400.0
Sweden	217	204	3.6	0.0	1.9	132.4	60.0	0.0	40.0	60.0	75.0	120.0	180.0	240.0	300.0	450.0
United States	217	153	28.1	0.0	1.3	223.7	180.0	20.0	60.0	75.0	120.0	165.0	300.0	420.0	600.0	900.0
International Avg (n=9)	2003	1797	6.6	0.0	2.5	224.0	178.9	17.2	63.9	88.3	128.3	196.1	294.4	402.2	493.3	753.9

Question: In teaching physics to this class, how would you characterize your confidence in doing the following. Inspiring students to learn physics
Location: TQP-18a (PTBP18A)

Country	Sample	Valid N	1.Very high %	2.High %	3.Medi um %	4.Low %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very high Mean	2.High Mean	3.Medi um Mean	4.Low Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	394	28.8	53.7	16.9	0.6	9.3	0.0	2.4	375.5	375.9	368.7	369.0	355.6	.	386.6
Italy	279	250	21.3	53.6	24.8	0.3	8.4	0.0	2.2	359.3	382.7	389.5	211.0	302.6	.	445.0
Lebanon	257	253	73.7	24.6	1.7	0.0	0.5	0.0	0.3	408.1	418.6	368.8	.	402.6	.	470.1
Norway	161	150	50.6	42.1	6.9	0.4	7.0	0.0	1.1	512.1	501.1	488.9	491.8	538.9	.	428.8
Portugal	149	147	50.5	43.1	6.4	0.0	1.0	0.0	0.4	462.8	472.3	455.1	.	435.5	.	578.7
Russian Federation	207	206	44.3	27.4	28.0	0.3	0.4	0.0	0.0	524.6	508.3	479.5	621.5	449.7	.	.
Slovenia	66	63	44.2	40.5	15.3	0.0	1.0	0.0	3.2	543.3	521.6	518.2	.	495.8	.	553.0
Sweden	217	208	32.3	50.9	16.3	0.5	3.6	0.0	0.4	465.0	450.5	451.5	352.9	445.1	.	487.6
United States	217	154	40.2	37.4	20.9	1.5	28.1	0.0	1.9	434.7	441.0	455.2	405.5	425.9	.	475.5
International Avg (n=9)	2003	1825	42.9	41.5	15.2	0.4	6.6	0.0	1.3	453.9	452.4	441.7	408.6	428.0	.	478.2

Question: In teaching physics to this class, how would you characterize your confidence in doing the following. Explaining physics concepts or principles by doing physics experiments

Location: TQP-18b (PTBP18B)

Country	Sample	Valid N	1.Very high %	2.High %	3.Medi um %	4.Low %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very high Mean	2.High Mean	3.Medi um Mean	4.Low Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	395	31.0	58.5	10.4	0.1	9.3	0.0	2.3	376.8	375.5	361.7	413.6	355.6	.	386.3
Italy	279	249	14.9	38.3	42.6	4.3	8.4	0.0	2.3	371.8	374.6	388.5	363.4	302.6	.	411.7
Lebanon	257	253	45.8	37.5	14.9	1.8	0.5	0.0	0.3	415.1	404.2	411.4	389.3	402.6	.	470.1
Norway	161	149	19.0	49.0	31.0	1.1	7.0	0.0	2.1	501.3	508.7	504.0	529.4	538.9	.	453.7
Portugal	149	147	24.9	47.1	25.2	2.8	1.0	0.0	0.4	457.5	467.9	471.6	473.6	435.5	.	578.7
Russian Federation	207	206	50.5	34.4	15.1	0.0	0.4	0.0	0.0	522.7	492.5	492.3	.	449.7	.	.
Slovenia	66	63	49.8	47.1	2.1	1.1	1.0	0.0	3.2	548.2	513.2	468.2	605.3	495.8	.	553.0
Sweden	217	208	25.0	54.0	18.5	2.5	3.6	0.0	0.4	459.3	458.5	439.5	446.3	445.1	.	487.6
United States	217	155	42.2	44.1	13.0	0.7	28.1	0.0	0.9	447.7	436.0	447.3	300.2	425.9	.	470.9
International Avg (n=9)	2003	1825	33.7	45.5	19.2	1.6	6.6	0.0	1.3	455.6	447.9	442.7	440.1	428.0	.	476.5

Question: In teaching physics to this class, how would you characterize your confidence in doing the following. Providing challenging tasks for the highest achieving students

Location: TQP-18c (PTBP18C)

Country	Sample	Valid N	1.Very high %	2.High %	3.Medi um %	4.Low %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very high Mean	2.High Mean	3.Medi um Mean	4.Low Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	392	7.0	38.0	43.8	11.2	9.3	0.0	2.5	367.6	380.5	370.0	376.0	355.6	.	387.4
Italy	279	250	11.4	37.9	41.7	9.0	8.4	0.0	2.3	392.6	379.6	369.1	411.9	302.6	.	411.8
Lebanon	257	249	35.3	39.9	20.6	4.2	0.5	0.0	1.7	410.7	408.7	415.2	387.7	402.6	.	429.2
Norway	161	149	25.3	56.2	17.2	1.3	7.0	0.0	2.1	510.9	506.6	496.8	513.3	538.9	.	453.7
Portugal	149	147	19.7	53.3	25.2	1.8	1.0	0.0	0.4	463.6	458.9	483.1	484.7	435.5	.	578.7
Russian Federation	207	206	44.3	38.7	16.7	0.4	0.4	0.0	0.0	526.7	504.4	467.2	419.6	449.7	.	.
Slovenia	66	63	36.6	51.7	10.2	1.6	1.0	0.0	3.2	554.9	517.3	521.4	467.1	495.8	.	553.0
Sweden	217	208	16.5	45.7	34.6	3.2	3.6	0.0	0.4	475.9	458.6	447.8	371.4	445.1	.	487.6
United States	217	155	34.6	49.3	15.8	0.4	28.1	0.0	0.9	461.7	433.5	423.8	375.8	425.9	.	470.9
International Avg (n=9)	2003	1819	25.6	45.6	25.1	3.7	6.6	0.0	1.5	462.7	449.8	443.8	423.1	428.0	.	471.5

Question: In teaching physics to this class, how would you characterize your confidence in doing the following. Adapting my teaching to engage students' interest

Location: TQP-18d (PTBP18D)

Country	Sample	Valid N	1.Very high %	2.High %	3.Medi um %	4.Low %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very high Mean	2.High Mean	3.Medi um Mean	4.Low Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	395	22.4	58.4	18.0	1.2	9.3	0.0	2.1	372.9	373.7	380.1	373.5	355.6	.	381.2
Italy	279	250	16.1	54.9	27.7	1.4	8.4	0.0	2.2	343.5	371.1	411.1	465.1	302.6	.	438.0
Lebanon	257	250	54.5	43.2	2.3	0.0	0.5	0.0	1.5	411.4	409.3	377.3	.	402.6	.	442.5
Norway	161	149	11.0	53.5	34.1	1.4	7.0	0.0	2.1	516.5	505.7	501.2	557.8	538.9	.	453.7
Portugal	149	147	35.1	57.8	7.0	0.0	1.0	0.0	0.4	458.1	468.7	489.5	.	435.5	.	578.7
Russian Federation	207	205	33.9	27.9	37.2	1.0	0.4	0.0	0.6	514.6	510.3	504.2	419.5	449.7	.	361.9
Slovenia	66	63	28.3	54.8	16.9	0.0	1.0	0.0	3.2	556.0	522.4	514.8	.	495.8	.	553.0
Sweden	217	208	20.5	58.3	20.9	0.4	3.6	0.0	0.4	471.6	452.3	447.6	340.3	445.1	.	487.6
United States	217	155	34.9	44.2	19.6	1.3	28.1	0.0	0.9	437.5	457.9	411.6	441.2	425.9	.	470.9
International Avg (n=9)	2003	1822	28.5	50.3	20.4	0.7	6.6	0.0	1.5	453.6	452.4	448.6	432.9	428.0	.	463.0

Question: In teaching physics to this class, how would you characterize your confidence in doing the following. Helping students appreciate the value of learning physics

Location: TQP-18e (PTBP18E)

Country	Sample	Valid N	1.Very high %	2.High %	3.Medi um %	4.Low %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very high Mean	2.High Mean	3.Medi um Mean	4.Low Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	391	17.4	48.9	30.2	3.4	9.3	0.0	2.7	382.2	378.3	369.6	325.9	355.6	.	384.2
Italy	279	251	29.1	52.5	17.9	0.4	8.4	0.0	1.8	361.7	387.6	380.8	447.5	302.6	.	445.5
Lebanon	257	251	69.7	27.7	2.2	0.4	0.7	0.0	0.5	411.0	407.1	416.0	457.8	360.2	.	471.0
Norway	161	149	24.2	52.9	22.1	0.8	7.0	0.0	2.1	504.4	508.2	502.8	508.7	538.9	.	453.7
Portugal	149	147	53.7	42.6	3.7	0.0	1.0	0.0	0.4	462.4	471.3	468.5	.	435.5	.	578.7
Russian Federation	207	205	52.1	32.4	15.5	0.0	0.4	0.0	0.6	526.3	500.4	466.4	.	449.7	.	361.9
Slovenia	66	63	35.3	49.9	14.7	0.0	1.0	0.0	3.2	536.6	532.8	509.3	.	495.8	.	553.0
Sweden	217	208	22.2	54.2	22.8	0.8	3.6	0.0	0.4	458.5	453.4	456.7	402.4	445.1	.	487.6
United States	217	155	36.7	46.9	14.9	1.4	28.1	0.0	0.9	437.0	451.8	423.6	405.5	425.9	.	470.9
International Avg (n=9)	2003	1820	37.8	45.3	16.0	0.8	6.6	0.0	1.4	453.3	454.5	443.8	424.6	423.2	.	467.4

Question: In teaching physics to this class, how would you characterize your confidence in doing the following. Assessing student comprehension of physics
Location: TQP-18f (PTBP18F)

Country	Sample	Valid N	1.Very high %	2.High %	3.Medi um %	4.Low %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very high Mean	2.High Mean	3.Medi um Mean	4.Low Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	392	16.4	65.0	18.1	0.5	9.3	0.0	2.5	374.3	377.1	364.3	406.3	355.6	.	387.4
Italy	279	251	15.7	62.2	21.7	0.3	8.4	0.0	1.8	384.8	378.5	375.7	454.1	302.6	.	445.5
Lebanon	257	252	59.6	36.5	3.2	0.7	0.5	0.0	0.5	413.2	405.8	421.1	292.6	402.6	.	471.0
Norway	161	149	30.3	59.9	9.8	0.0	7.0	0.0	2.1	514.7	504.5	489.2	.	538.9	.	453.7
Portugal	149	147	27.5	65.7	6.8	0.0	1.0	0.0	0.4	462.1	468.4	464.7	.	435.5	.	578.7
Russian Federation	207	205	35.6	39.9	24.5	0.0	0.4	0.0	0.6	520.6	517.1	477.4	.	449.7	.	361.9
Slovenia	66	63	34.3	47.8	17.9	0.0	1.0	0.0	3.2	525.0	536.4	526.3	.	495.8	.	553.0
Sweden	217	208	23.4	58.8	17.4	0.4	3.6	0.0	0.4	452.4	457.4	452.1	340.3	445.1	.	487.6
United States	217	155	30.9	56.3	12.8	0.0	28.1	0.0	0.9	428.8	447.4	446.0	.	425.9	.	470.9
International Avg (n=9)	2003	1822	30.4	54.7	14.7	0.2	6.6	0.0	1.4	452.9	454.7	446.3	373.3	428.0	.	467.7

Question: In teaching physics to this class, how would you characterize your confidence in doing the following. Improving the understanding of struggling students

Location: TQP-18g (PTBP18G)

Country	Sample	Valid N	1.Very high %	2.High %	3.Medi um %	4.Low %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very high Mean	2.High Mean	3.Medi um Mean	4.Low Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	394	15.9	49.3	33.6	1.2	9.3	0.0	2.4	388.8	373.9	367.3	413.0	355.6	.	386.6
Italy	279	251	9.8	54.7	33.7	1.7	8.4	0.0	1.8	330.7	374.0	398.8	431.6	302.6	.	445.5
Lebanon	257	251	50.3	43.3	5.4	1.1	0.5	0.0	1.8	413.0	406.6	405.8	325.7	402.6	.	480.1
Norway	161	149	14.7	43.9	40.1	1.3	7.0	0.0	2.1	514.0	504.2	505.5	498.4	538.9	.	453.7
Portugal	149	147	34.7	53.9	11.1	0.4	1.0	0.0	0.4	459.1	467.5	481.1	553.2	435.5	.	578.7
Russian Federation	207	205	29.8	42.8	26.1	1.2	0.4	0.0	0.6	515.9	512.9	496.0	447.3	449.7	.	361.9
Slovenia	66	62	37.5	38.7	22.7	1.1	1.0	0.0	5.6	541.2	529.6	509.5	618.9	495.8	.	548.5
Sweden	217	207	16.1	57.0	24.0	2.9	3.6	0.0	0.8	457.0	457.0	449.2	458.3	445.1	.	440.6
United States	217	155	26.5	51.5	20.5	1.6	28.1	0.0	0.9	463.7	425.2	452.1	464.4	425.9	.	470.9
International Avg (n=9)	2003	1821	26.1	48.3	24.1	1.4	6.6	0.0	1.8	453.7	450.1	451.7	467.9	428.0	.	462.9

Question: In teaching physics to this class, how would you characterize your confidence in doing the following. Making physics relevant to students
Location: TQP-18h (PTBP18H)

Country	Sample	Valid N	1.Very high %	2.High %	3.Medi um %	4.Low %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very high Mean	2.High Mean	3.Medi um Mean	4.Low Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	394	20.9	57.4	21.6	0.1	9.3	0.0	2.4	384.0	373.1	368.8	413.6	355.6	.	386.6
Italy	279	250	21.9	51.4	25.2	1.5	8.4	0.0	2.1	362.2	383.4	382.2	407.3	302.6	.	450.1
Lebanon	257	250	59.2	37.2	3.4	0.3	0.5	0.0	1.3	413.3	407.0	387.2	280.1	402.6	.	444.1
Norway	161	149	16.7	53.1	29.4	0.8	7.0	0.0	2.1	492.8	509.3	506.9	536.5	538.9	.	453.7
Portugal	149	147	46.1	49.0	4.9	0.0	1.0	0.0	0.4	462.0	471.5	457.7	.	435.5	.	578.7
Russian Federation	207	205	45.7	32.9	21.0	0.4	0.4	0.0	0.6	515.7	500.2	508.2	419.6	449.7	.	361.9
Slovenia	66	63	51.9	33.4	14.7	0.0	1.0	0.0	3.2	529.8	538.8	515.2	.	495.8	.	553.0
Sweden	217	208	19.6	55.6	24.2	0.6	3.6	0.0	0.4	446.8	460.0	453.8	298.7	445.1	.	487.6
United States	217	155	35.4	39.5	24.1	1.0	28.1	0.0	0.9	431.2	469.7	409.3	465.6	425.9	.	470.9
International Avg (n=9)	2003	1821	35.3	45.5	18.7	0.5	6.6	0.0	1.5	448.7	457.0	443.3	403.0	428.0	.	465.2

Question: In teaching physics to this class, how would you characterize your confidence in doing the following. Developing students' higher-order thinking skills

Location: TQP-18i (PTBP18I)

Country	Sample	Valid N	1.Very high %	2.High %	3.Medium %	4.Low %	Not Administered %	Not Applicable %	Omitted %	1.Very high Mean	2.High Mean	3.Medium Mean	4.Low Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	392	11.1	47.5	39.4	2.0	9.3	0.0	2.7	378.5	378.4	370.3	355.3	355.6	.	377.4
Italy	279	250	16.5	51.9	29.0	2.6	8.4	0.0	2.2	363.0	378.0	391.6	359.4	302.6	.	439.0
Lebanon	257	251	56.6	39.5	3.5	0.5	0.5	0.0	0.9	416.2	404.4	380.9	299.2	402.6	.	460.8
Norway	161	149	16.1	53.3	30.6	0.0	7.0	0.0	2.1	514.1	508.1	498.3	.	538.9	.	453.7
Portugal	149	147	32.1	51.0	16.7	0.2	1.0	0.0	0.4	458.4	463.8	490.5	418.4	435.5	.	578.7
Russian Federation	207	203	27.7	38.2	29.6	4.5	0.4	0.0	1.5	512.8	508.5	507.9	489.3	449.7	.	451.3
Slovenia	66	63	51.4	38.4	9.1	1.1	1.0	0.0	3.2	539.0	520.8	516.4	605.3	495.8	.	553.0
Sweden	217	208	22.9	47.7	29.4	0.0	3.6	0.0	0.4	470.9	454.7	442.8	.	445.1	.	487.6
United States	217	155	37.8	39.8	22.1	0.3	28.1	0.0	0.9	432.6	471.0	404.4	384.3	425.9	.	470.9
International Avg (n=9)	2003	1818	30.2	45.3	23.3	1.2	6.6	0.0	1.6	454.0	454.2	444.8	415.9	428.0	.	474.7

Question: In teaching physics to this class, how would you characterize your confidence in doing the following. Teaching physics using inquiry methods
Location: TQP-18j (PTBP18J)

Country	Sample	Valid N	1.Very high %	2.High %	3.Medi um %	4.Low %	Not Admini stered %	Not Applic able %	Omitte d %	1.Very high Mean	2.High Mean	3.Medi um Mean	4.Low Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	394	12.7	42.5	39.4	5.4	9.3	0.0	2.4	379.8	372.5	373.3	386.7	355.6	.	386.6
Italy	279	248	8.4	33.7	43.0	15.0	8.4	0.0	3.1	345.8	356.3	391.5	408.0	302.6	.	441.4
Lebanon	257	251	41.1	43.1	14.4	1.3	0.5	0.0	1.2	410.9	408.0	418.3	324.4	402.6	.	460.1
Norway	161	150	4.9	25.8	57.0	12.3	7.0	0.0	1.0	497.7	510.7	501.3	514.3	538.9	.	479.5
Portugal	149	147	14.3	31.4	41.7	12.6	1.0	0.0	0.4	454.6	464.7	463.2	494.4	435.5	.	578.7
Russian Federation	207	205	24.2	34.5	32.9	8.5	0.4	0.0	0.6	525.2	507.7	494.8	518.5	449.7	.	361.9
Slovenia	66	63	23.6	50.2	21.6	4.6	1.0	0.0	3.2	552.9	520.4	529.7	534.1	495.8	.	553.0
Sweden	217	208	13.4	42.8	38.7	5.1	3.6	0.0	0.4	459.3	463.9	441.5	469.4	445.1	.	487.6
United States	217	155	19.8	38.6	32.4	9.2	28.1	0.0	0.9	447.4	416.0	464.9	453.3	425.9	.	470.9
International Avg (n=9)	2003	1821	18.0	38.1	35.7	8.2	6.6	0.0	1.5	452.6	446.7	453.2	455.9	428.0	.	468.8

Question: In teaching physics to this class, how often do you ask students to do the following. Listen to me explain new physics content
Location: TQP-19a (PTBP19A)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	399	45.6	37.9	15.2	1.3	9.3	0.0	1.7	374.7	373.0	376.7	404.8	355.6	.	380.6
Italy	279	253	60.2	17.0	17.2	5.6	8.4	0.0	1.2	379.3	380.7	372.1	394.5	302.6	.	478.9
Lebanon	257	250	62.9	21.7	14.2	1.3	0.5	0.0	1.5	405.8	423.2	411.1	360.6	402.6	.	439.7
Norway	161	151	61.0	36.3	2.1	0.5	7.0	0.0	0.0	505.1	504.5	515.5	465.1	538.9	.	.
Portugal	149	146	63.7	26.7	9.0	0.6	1.0	0.0	1.1	469.7	453.5	476.4	488.6	435.5	.	534.6
Russian Federation	207	203	41.9	49.0	9.1	0.0	0.4	0.0	1.2	500.2	512.8	520.5	.	449.7	.	467.2
Slovenia	66	63	67.7	23.0	9.3	0.0	1.0	0.0	3.2	534.9	531.7	497.2	.	495.8	.	553.0
Sweden	217	208	60.2	18.3	18.5	3.1	3.6	0.0	1.9	461.8	447.2	437.9	481.3	445.1	.	440.9
United States	217	154	33.0	44.4	17.4	5.1	28.1	0.0	1.2	438.8	431.7	465.6	449.9	425.9	.	498.2
International Avg (n=9)	2003	1827	55.1	30.5	12.4	1.9	6.6	0.0	1.4	452.2	450.9	452.6	435.0	428.0	.	474.1

Question: In teaching physics to this class, how often do you ask students to do the following. Observe natural phenomena and describe what they see
Location: TQP-19b (PTBP19B)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini- stered %	Not Applic- able %	Omitte- d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini- stered Mean	Not Applic- able Mean	Omitte- d Mean
France	450	398	14.2	34.8	48.0	3.0	9.3	0.0	2.0	371.1	371.8	376.6	390.2	355.6	.	387.3
Italy	279	252	32.5	31.2	34.7	1.5	8.4	0.0	1.6	363.8	382.5	388.0	449.8	302.6	.	438.0
Lebanon	257	252	44.5	30.4	23.1	1.9	0.5	0.0	1.0	410.3	411.9	407.7	386.1	402.6	.	457.3
Norway	161	150	3.7	28.0	65.2	3.1	7.0	0.0	1.1	484.9	501.3	508.4	516.9	538.9	.	428.8
Portugal	149	147	17.9	34.2	47.3	0.6	1.0	0.0	0.4	457.4	465.1	469.7	556.9	435.5	.	578.7
Russian Federation	207	206	7.1	30.9	61.6	0.4	0.4	0.0	0.0	523.7	511.7	503.0	667.7	449.7	.	.
Slovenia	66	63	19.4	38.4	42.2	0.0	1.0	0.0	3.2	521.2	532.2	533.6	.	495.8	.	553.0
Sweden	217	208	3.7	29.3	61.7	5.2	3.6	0.0	1.9	417.0	464.0	458.3	398.5	445.1	.	440.9
United States	217	154	9.1	51.7	36.9	2.3	28.1	0.0	1.2	460.8	429.4	451.7	447.2	425.9	.	498.2
International Avg (n=9)	2003	1830	16.9	34.3	46.8	2.0	6.6	0.0	1.4	445.6	452.2	455.2	476.7	428.0	.	472.8

Question: In teaching physics to this class, how often do you ask students to do the following. Watch me demonstrate an experiment, investigation, or simulation
Location: TQP-19c (PTBP19C)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	7.5	30.2	59.2	3.1	9.3	0.0	2.0	358.8	373.3	375.9	398.7	355.6	.	387.2
Italy	279	252	15.9	14.3	59.7	10.2	8.4	0.0	1.6	347.6	387.7	388.6	363.4	302.6	.	438.0
Lebanon	257	251	33.8	34.7	30.7	0.8	0.9	0.0	1.0	401.8	407.2	423.8	320.1	404.9	.	457.3
Norway	161	151	3.3	26.7	70.1	0.0	7.0	0.0	0.0	491.8	508.0	504.3	.	538.9	.	.
Portugal	149	147	6.2	29.0	62.4	2.4	1.0	0.0	0.4	482.9	463.3	466.1	469.6	435.5	.	578.7
Russian Federation	207	205	15.7	49.1	35.2	0.0	0.4	0.0	0.3	507.5	497.4	522.3	.	449.7	.	506.4
Slovenia	66	63	24.8	39.7	34.4	1.1	1.0	0.0	3.2	553.6	522.3	521.5	605.3	495.8	.	553.0
Sweden	217	209	16.1	43.7	37.8	2.4	3.6	0.0	0.0	475.8	456.7	444.8	447.6	445.1	.	.
United States	217	154	11.2	42.1	44.5	2.2	28.1	0.0	1.2	468.1	439.0	433.1	498.2	425.9	.	498.2
International Avg (n=9)	2003	1829	14.9	34.4	48.2	2.5	6.6	0.0	1.1	454.2	450.6	453.4	443.3	428.2	.	488.4

Question: In teaching physics to this class, how often do you ask students to do the following. Design or plan experiments, investigations, or simulations
Location: TQP-19d (PTBP19D)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	9.7	44.4	43.6	2.3	9.3	0.0	2.0	375.8	373.5	376.4	354.0	355.6	.	387.2
Italy	279	252	6.8	16.7	62.2	14.3	8.4	0.0	1.6	376.5	327.2	386.6	410.1	302.6	.	438.0
Lebanon	257	249	29.4	27.8	39.2	3.6	0.5	0.0	1.8	406.9	407.2	416.7	368.3	402.6	.	450.4
Norway	161	151	0.0	4.8	88.9	6.3	7.0	0.0	0.0	.	507.0	504.9	502.6	538.9	.	.
Portugal	149	147	1.6	22.5	68.8	7.1	1.0	0.0	0.4	472.1	458.0	470.4	452.7	435.5	.	578.7
Russian Federation	207	206	4.0	24.0	70.9	1.1	0.4	0.0	0.0	457.9	512.9	509.4	471.0	449.7	.	.
Slovenia	66	63	4.4	16.5	60.5	18.7	1.0	0.0	3.2	557.0	496.6	530.5	555.0	495.8	.	553.0
Sweden	217	209	3.5	13.2	75.1	8.2	3.6	0.0	0.0	458.5	449.8	458.0	435.0	445.1	.	.
United States	217	154	4.3	37.5	57.3	0.9	28.1	0.0	1.2	457.2	420.6	454.8	319.7	425.9	.	498.2
International Avg (n=9)	2003	1828	7.1	23.0	62.9	6.9	6.6	0.0	1.1	445.2	439.2	456.4	429.8	428.0	.	484.3

Question: In teaching physics to this class, how often do you ask students to do the following. Conduct experiments, investigations, or simulations
Location: TQP-19e (PTBP19E)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini- stered %	Not Applic- able %	Omitte- d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini- stered Mean	Not Applic- able Mean	Omitte- d Mean
France	450	396	11.8	56.5	31.6	0.1	9.3	0.0	2.0	380.0	374.0	373.4	413.6	355.6	.	387.4
Italy	279	252	5.6	14.3	68.7	11.5	8.4	0.0	1.6	360.4	348.0	392.3	350.5	302.6	.	438.0
Lebanon	257	249	24.4	27.4	40.0	8.2	0.5	0.0	1.8	400.5	412.3	414.3	409.9	402.6	.	418.0
Norway	161	151	0.9	9.3	89.5	0.4	7.0	0.0	0.0	474.4	500.1	505.6	527.9	538.9	.	.
Portugal	149	147	1.2	25.6	72.7	0.5	1.0	0.0	0.4	473.9	458.3	469.1	478.1	435.5	.	578.7
Russian Federation	207	205	2.8	21.6	75.1	0.5	0.4	0.0	0.4	447.6	512.3	508.6	538.5	449.7	.	487.8
Slovenia	66	63	3.1	19.8	76.6	0.5	1.0	0.0	3.2	559.1	513.2	534.4	471.7	495.8	.	553.0
Sweden	217	208	2.9	26.4	70.4	0.3	3.6	0.0	0.8	441.3	470.0	449.2	587.2	445.1	.	474.4
United States	217	154	6.8	46.1	47.1	0.0	28.1	0.0	1.2	458.6	437.6	441.6	.	425.9	.	498.2
International Avg (n=9)	2003	1825	6.6	27.4	63.5	2.4	6.6	0.0	1.3	444.0	447.3	454.3	472.2	428.0	.	479.4

Question: In teaching physics to this class, how often do you ask students to do the following. Present data from experiments, investigations, or simulations
 Location: TQP-19f (PTBP19F)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	396	6.6	36.8	53.3	3.4	9.3	0.0	2.1	379.4	374.5	372.7	395.0	355.6	.	387.6
Italy	279	251	5.4	16.6	62.0	16.1	8.4	0.0	2.7	344.3	353.3	385.7	390.1	302.6	.	433.6
Lebanon	257	250	32.5	27.4	35.1	5.0	0.6	0.0	1.2	400.0	402.6	426.6	396.7	396.1	.	438.3
Norway	161	151	0.0	5.8	90.8	3.5	7.0	0.0	0.0	.	491.8	505.4	512.6	538.9	.	.
Portugal	149	147	0.8	28.1	66.6	4.5	1.0	0.0	0.4	476.3	460.7	467.0	492.3	435.5	.	578.7
Russian Federation	207	206	2.3	18.8	77.9	1.1	0.4	0.0	0.0	458.9	503.7	511.3	425.6	449.7	.	.
Slovenia	66	63	2.3	13.2	83.1	1.4	1.0	0.0	3.2	564.0	517.0	531.9	531.4	495.8	.	553.0
Sweden	217	209	1.6	15.7	80.8	1.9	3.6	0.0	0.0	418.4	463.5	454.4	442.5	445.1	.	.
United States	217	154	5.3	21.1	67.5	6.1	28.1	0.0	1.2	454.7	453.5	434.2	459.6	425.9	.	498.2
International Avg (n=9)	2003	1827	6.3	20.4	68.6	4.8	6.6	0.0	1.2	437.0	446.7	454.4	449.5	427.2	.	481.6

Question: In teaching physics to this class, how often do you ask students to do the following. Interpret data from experiments, investigations, or simulations
Location: TQP-19g (PTBP19G)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini- stered %	Not Applic- able %	Omitte- d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini- stered Mean	Not Applic- able Mean	Omitte- d Mean
France	450	396	10.6	48.0	41.3	0.2	9.3	0.0	2.1	370.4	375.6	374.2	412.5	355.6	.	387.6
Italy	279	252	6.7	17.9	66.2	9.2	8.4	0.0	1.6	351.8	358.0	388.0	379.2	302.6	.	438.0
Lebanon	257	251	38.9	28.6	31.4	1.0	0.5	0.0	1.2	398.6	410.5	423.0	415.8	402.6	.	438.3
Norway	161	151	0.0	8.6	90.8	0.6	7.0	0.0	0.0	.	504.0	504.7	546.1	538.9	.	.
Portugal	149	147	2.7	30.2	64.7	2.4	1.0	0.0	0.4	479.2	464.4	466.6	472.8	435.5	.	578.7
Russian Federation	207	206	4.1	22.4	72.5	0.9	0.4	0.0	0.0	459.7	509.7	510.5	455.7	449.7	.	.
Slovenia	66	63	4.4	19.9	74.3	1.4	1.0	0.0	3.2	557.0	517.4	532.7	531.4	495.8	.	553.0
Sweden	217	209	3.9	17.7	77.8	0.7	3.6	0.0	0.0	477.7	460.5	452.7	448.1	445.1	.	.
United States	217	154	6.8	44.0	47.5	1.8	28.1	0.0	1.2	453.8	442.5	438.7	411.0	425.9	.	498.2
International Avg (n=9)	2003	1829	8.7	26.4	62.9	2.0	6.6	0.0	1.1	443.5	449.2	454.6	452.5	428.0	.	482.3

Question: In teaching physics to this class, how often do you ask students to do the following. Use evidence from experiments, investigations,
 or simulations to support conclusions

Location: TQP-19h (PTBP19H)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	398	17.8	44.9	37.0	0.3	9.3	0.0	1.7	371.3	375.0	375.4	385.9	355.6	.	391.7
Italy	279	252	7.6	20.9	58.0	13.5	8.4	0.0	1.6	353.6	357.4	389.7	383.5	302.6	.	438.0
Lebanon	257	250	45.6	32.5	21.5	0.4	0.5	0.0	1.7	404.5	409.5	422.6	343.4	402.6	.	435.6
Norway	161	150	2.4	9.8	87.2	0.6	7.0	0.0	1.1	532.0	502.1	505.2	546.1	538.9	.	428.8
Portugal	149	147	7.0	28.1	63.3	1.5	1.0	0.0	0.4	450.1	461.8	469.8	487.8	435.5	.	578.7
Russian Federation	207	206	5.4	21.4	72.8	0.4	0.4	0.0	0.0	487.6	508.2	510.0	357.6	449.7	.	.
Slovenia	66	63	0.8	48.4	45.7	5.1	1.0	0.0	3.2	546.0	536.1	518.3	587.9	495.8	.	553.0
Sweden	217	209	6.3	22.0	70.1	1.6	3.6	0.0	0.0	455.4	452.4	455.7	460.1	445.1	.	.
United States	217	155	14.9	38.1	46.6	0.5	28.1	0.0	0.9	463.9	431.9	441.7	489.2	425.9	.	470.9
International Avg (n=9)	2003	1830	12.0	29.6	55.8	2.7	6.6	0.0	1.2	451.6	448.3	454.3	449.1	428.0	.	471.0

Question: In teaching physics to this class, how often do you ask students to do the following. Read their textbooks or other resource materials
Location: TQP-19i (PTBP19I)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	398	26.2	27.2	39.7	6.9	9.3	0.0	1.7	364.4	383.7	376.4	365.7	355.6	.	391.7
Italy	279	252	30.4	26.0	35.9	7.8	8.4	0.0	1.6	357.2	366.3	392.4	450.5	302.6	.	438.0
Lebanon	257	249	40.3	30.8	21.2	7.7	0.5	0.0	1.5	408.7	406.7	405.3	439.6	402.6	.	443.8
Norway	161	151	13.9	19.3	52.2	14.7	7.0	0.0	0.0	489.2	500.8	508.7	511.4	538.9	.	.
Portugal	149	147	12.3	12.8	57.7	17.2	1.0	0.0	0.4	463.3	459.0	463.7	483.4	435.5	.	578.7
Russian Federation	207	205	30.0	28.7	36.3	5.0	0.4	0.0	0.6	506.9	473.8	529.8	550.2	449.7	.	489.0
Slovenia	66	63	4.0	19.1	48.8	28.0	1.0	0.0	3.2	491.2	539.0	517.0	554.5	495.8	.	553.0
Sweden	217	209	20.2	32.6	39.1	8.2	3.6	0.0	0.0	470.7	443.5	449.2	490.0	445.1	.	.
United States	217	155	19.8	15.2	50.3	14.6	28.1	0.0	0.9	404.2	482.2	430.9	486.3	425.9	.	470.9
International Avg (n=9)	2003	1829	21.9	23.5	42.4	12.2	6.6	0.0	1.1	439.5	450.5	452.6	481.3	428.0	.	480.7

Question: In teaching physics to this class, how often do you ask students to do the following. Have students memorize facts and principles
Location: TQP-19j (PTBP19J)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini- stered %	Not Applic- able %	Omitte- d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini- stered Mean	Not Applic- able Mean	Omitte- d Mean
France	450	398	33.1	42.2	22.9	1.8	9.3	0.0	1.7	376.0	369.1	379.7	408.2	355.6	.	391.7
Italy	279	247	32.9	31.3	28.4	7.4	8.4	0.0	3.2	363.6	363.4	408.8	381.6	302.6	.	456.2
Lebanon	257	249	53.9	20.0	23.5	2.6	0.7	0.0	1.4	401.5	416.3	423.0	419.7	418.2	.	419.0
Norway	161	150	4.0	15.0	58.7	22.3	7.0	0.0	1.1	501.6	493.1	506.4	513.4	538.9	.	428.8
Portugal	149	146	7.3	12.0	53.4	27.2	1.0	0.0	0.9	466.6	467.5	464.3	469.4	435.5	.	545.0
Russian Federation	207	204	34.9	29.6	19.4	16.1	0.4	0.0	1.1	488.8	507.6	507.6	549.0	449.7	.	513.0
Slovenia	66	63	16.8	42.0	39.1	2.1	1.0	0.0	3.2	544.9	523.9	527.3	614.8	495.8	.	553.0
Sweden	217	209	8.3	24.6	53.5	13.6	3.6	0.0	0.0	472.1	438.2	460.3	454.3	445.1	.	.
United States	217	155	13.4	15.2	49.7	21.7	28.1	0.0	0.9	391.9	453.9	456.1	430.0	425.9	.	470.9
International Avg (n=9)	2003	1821	22.7	25.8	38.7	12.8	6.6	0.0	1.5	445.2	448.1	459.3	471.2	429.7	.	472.2

Question: In teaching physics to this class, how often do you ask students to do the following. Use scientific formulas and laws to solve routine problems
Location: TQP-19k (PTBP19K)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini- stered %	Not Applic- able %	Omitte- d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini- stered Mean	Not Applic- able Mean	Omitte- d Mean
France	450	398	49.1	42.2	8.6	0.1	9.3	0.0	1.7	377.0	371.5	379.1	413.6	355.6	.	370.2
Italy	279	250	39.7	43.0	16.1	1.2	8.4	0.0	2.4	360.9	384.9	411.4	295.9	302.6	.	448.3
Lebanon	257	251	83.2	12.5	3.9	0.4	0.5	0.0	1.2	406.7	425.9	432.9	343.4	402.6	.	438.3
Norway	161	151	46.6	36.2	17.2	0.0	7.0	0.0	0.0	506.3	504.3	502.2	.	538.9	.	.
Portugal	149	147	45.5	32.1	21.8	0.6	1.0	0.0	0.4	463.2	468.3	470.1	477.8	435.5	.	578.7
Russian Federation	207	206	86.9	12.6	0.6	0.0	0.4	0.0	0.0	511.4	485.9	433.4	.	449.7	.	.
Slovenia	66	63	40.1	35.9	24.0	0.0	1.0	0.0	3.2	528.3	535.4	527.7	.	495.8	.	553.0
Sweden	217	209	61.9	27.1	11.0	0.0	3.6	0.0	0.0	459.3	446.1	453.0	.	445.1	.	.
United States	217	155	45.9	34.1	20.0	0.0	28.1	0.0	0.9	441.3	422.5	474.4	.	425.9	.	470.9
International Avg (n=9)	2003	1830	55.4	30.6	13.7	0.3	6.6	0.0	1.1	450.5	449.4	453.8	382.7	428.0	.	476.5

Question: In teaching physics to this class, how often do you ask students to do the following. Do field work outside of class
Location: TQP-191 (PTBP19L)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini- stered %	Not Applic- able %	Omitte- d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini- stered Mean	Not Applic- able Mean	Omitte- d Mean
France	450	396	1.0	2.9	15.3	80.7	9.3	0.0	2.0	393.3	377.1	376.3	373.8	355.6	.	389.2
Italy	279	252	2.8	3.5	34.6	59.0	8.4	0.0	1.6	331.9	335.6	367.4	391.3	302.6	.	438.0
Lebanon	257	249	3.7	13.6	41.3	41.4	0.5	0.0	1.9	445.9	391.3	409.9	412.2	402.6	.	437.9
Norway	161	151	0.0	0.7	43.0	56.4	7.0	0.0	0.0	.	471.9	496.2	511.9	538.9	.	.
Portugal	149	147	0.9	2.6	38.3	58.2	1.0	0.0	0.4	436.8	436.6	461.9	471.1	435.5	.	578.7
Russian Federation	207	206	0.0	5.1	77.1	17.8	0.4	0.0	0.0	.	492.7	510.0	502.5	449.7	.	.
Slovenia	66	63	0.0	2.0	49.0	49.0	1.0	0.0	3.2	.	585.4	537.8	521.4	495.8	.	553.0
Sweden	217	209	0.7	2.8	43.6	52.9	3.6	0.0	0.0	441.8	455.0	471.6	441.6	445.1	.	.
United States	217	155	6.1	2.4	50.9	40.7	28.1	0.0	0.9	305.4	409.5	449.8	453.3	425.9	.	470.9
International Avg (n=9)	2003	1828	1.7	4.0	43.7	50.7	6.6	0.0	1.1	392.5	439.4	453.4	453.2	428.0	.	477.9

Question: In teaching physics to this class, how often do you ask students to do the following. Take a written test or quiz
Location: TQP-19m (PTBP19M)

Country	Sample	Valid N	1.Every or almost every lesson %	2.About half the lessons %	3.Some lessons %	4.Never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every or almost every lesson Mean	2.About half the lessons Mean	3.Some lessons Mean	4.Never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	398	1.2	8.0	89.4	1.4	9.3	0.0	1.7	356.3	388.8	374.0	344.5	355.6	.	391.7
Italy	279	252	11.2	13.9	74.8	0.0	8.4	0.0	1.6	326.2	350.9	392.7	.	302.6	.	438.0
Lebanon	257	249	52.7	22.8	22.7	1.8	0.6	0.0	1.7	401.4	422.9	413.5	437.9	412.8	.	435.6
Norway	161	151	0.0	5.9	94.1	0.0	7.0	0.0	0.0	.	488.9	505.9	.	538.9	.	.
Portugal	149	147	1.3	4.3	93.8	0.6	1.0	0.0	0.4	459.3	480.4	465.8	480.0	435.5	.	578.7
Russian Federation	207	206	7.1	45.5	47.5	0.0	0.4	0.0	0.0	496.3	512.9	504.5	.	449.7	.	.
Slovenia	66	63	0.0	0.0	99.4	0.6	1.0	0.0	3.2	.	.	531.1	447.9	495.8	.	553.0
Sweden	217	209	6.7	3.3	88.1	1.9	3.6	0.0	0.0	474.5	314.1	457.6	506.2	445.1	.	.
United States	217	155	5.8	11.7	82.4	0.1	28.1	0.0	0.9	392.2	448.6	443.8	500.8	425.9	.	470.9
International Avg (n=9)	2003	1830	9.6	12.8	76.9	0.7	6.6	0.0	1.1	415.2	425.9	454.3	452.9	429.1	.	478.0

Question: Do the students in this class have computers, tablets, calculators, or smartphones available to use during their physics lessons
Location: TQP-20A (PTBP20A)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	400	86.7	13.3	9.3	0.0	1.3	375.3	371.2	355.6	.	381.6
Italy	279	250	58.7	41.3	8.4	0.0	2.1	372.5	388.5	302.6	.	439.3
Lebanon	257	250	33.0	67.0	0.6	0.0	0.9	405.4	412.9	423.4	.	372.4
Norway	161	151	100.0	0.0	7.0	0.0	0.0	504.9	.	538.9	.	.
Portugal	149	146	75.6	24.4	1.0	0.0	2.6	469.1	461.7	435.5	.	452.3
Russian Federation	207	206	90.1	9.9	0.4	0.0	0.0	508.7	498.8	449.7	.	.
Slovenia	66	64	80.5	19.5	1.0	0.0	2.0	528.9	538.9	495.8	.	556.4
Sweden	217	209	98.6	1.4	3.6	0.0	0.0	455.6	412.8	445.1	.	.
United States	217	155	88.6	11.4	28.1	0.0	0.9	439.6	456.0	425.9	.	470.9
International Avg (n=9)	2003	1831	79.1	20.9	6.6	0.0	1.1	451.1	442.6	430.3	.	445.5

Question: How often do you have the students do the following activities on computers, tablets, calculators, or smartphones during physics lessons.

Read the textbook or course materials in digital format

Location: TQP-20Ba (PTBP20BA)

Country	Sample	Valid N	1.Every y or almost every day %	2.Once or twice a week %	3.Once or twice a month %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every y or almost every day Mean	2.Once or twice a week Mean	3.Once or twice a month Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	398	7.9	14.2	17.4	47.1	9.3	13.3	1.7	363.2	377.1	371.9	377.6	355.6	371.2	389.4
Italy	279	248	6.5	11.5	18.4	22.0	8.4	41.5	2.6	356.2	345.7	358.0	400.9	302.6	388.5	446.3
Lebanon	257	240	2.3	9.4	8.3	10.6	0.8	69.3	4.0	422.6	401.9	410.3	406.7	395.8	412.9	387.6
Norway	161	151	11.4	14.0	23.4	51.2	7.0	0.0	0.0	501.2	497.6	498.9	510.4	538.9	.	.
Portugal	149	146	2.8	2.6	32.3	37.9	1.0	24.4	2.6	462.1	455.3	470.4	469.5	435.5	461.7	452.3
Russian Federation	207	204	21.6	31.3	19.9	17.2	0.4	10.0	0.9	514.2	518.8	482.7	508.6	449.7	498.8	609.0
Slovenia	66	63	2.5	10.2	26.4	41.1	1.0	19.8	3.2	507.7	508.8	529.5	534.3	495.8	538.9	553.0
Sweden	217	205	2.2	4.2	31.9	60.2	3.6	1.5	1.8	329.2	487.0	466.1	453.7	445.1	412.8	421.2
United States	217	155	7.4	21.1	15.6	44.5	28.1	11.4	0.9	466.4	462.6	406.6	435.9	425.9	456.0	470.9
International Avg (n=9)	2003	1810	7.2	13.2	21.5	36.9	6.6	21.2	1.9	435.9	450.5	443.8	455.3	427.2	442.6	466.2

Question: How often do you have the students do the following activities on computers, tablets, calculators, or smartphones during physics lessons.

Look up ideas and information

Location: TQP-20Bb (PTBP20BB)

Country	Sample	Valid N	1.Every y or almost every day %	2.Once or twice a week %	3.Once or twice a month %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every y or almost every day Mean	2.Once or twice a week Mean	3.Once or twice a month Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	3.3	17.0	46.4	19.9	9.3	13.4	1.8	389.4	372.3	376.9	370.5	355.6	371.2	391.0
Italy	279	248	6.3	17.2	25.8	9.0	8.4	41.7	2.9	366.5	335.3	397.3	371.3	302.6	388.5	435.0
Lebanon	257	244	7.3	5.8	11.6	6.8	0.5	68.5	3.2	390.8	437.3	387.0	431.6	402.6	412.9	386.4
Norway	161	151	4.3	25.2	49.0	21.5	7.0	0.0	0.0	489.6	501.9	509.3	501.4	538.9	.	.
Portugal	149	145	0.5	9.9	43.6	21.4	1.0	24.6	3.4	418.0	458.9	472.0	466.4	435.5	461.7	472.3
Russian Federation	207	205	21.2	41.6	22.5	4.7	0.4	10.0	0.5	501.4	515.6	494.3	540.3	449.7	498.8	595.8
Slovenia	66	63	4.5	17.4	43.9	14.4	1.0	19.8	3.2	550.8	518.3	529.1	533.0	495.8	538.9	553.0
Sweden	217	207	0.9	11.0	71.5	15.2	3.6	1.5	1.2	364.8	460.3	455.7	458.2	445.1	412.8	448.8
United States	217	155	4.8	48.6	28.7	6.6	28.1	11.4	0.9	470.7	423.0	452.6	483.2	425.9	456.0	470.9
International Avg (n=9)	2003	1815	5.9	21.5	38.1	13.3	6.6	21.2	1.9	438.0	447.0	452.7	461.8	428.0	442.6	469.1

Question: How often do you have the students do the following activities on computers, tablets, calculators, or smartphones during physics lessons.

Process and analyze data

Location: TQP-20Bc (PTBP20BC)

Country	Sample	Valid N	1.Every y or almost every day %	2.Once or twice a week %	3.Once or twice a month %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every y or almost every day Mean	2.Once or twice a week Mean	3.Once or twice a month Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	398	7.4	40.3	38.1	0.9	9.3	13.3	1.7	376.2	375.7	373.9	386.4	355.6	371.2	389.4
Italy	279	249	7.1	12.1	28.3	11.1	8.4	41.4	2.3	321.0	364.9	391.7	362.7	302.6	388.5	441.0
Lebanon	257	241	3.6	10.8	9.5	7.2	0.5	69.0	3.8	405.7	397.6	399.4	431.6	402.6	412.9	388.8
Norway	161	150	5.5	24.8	65.2	4.6	7.0	0.0	0.6	506.2	514.4	500.0	526.5	538.9	.	471.9
Portugal	149	146	7.0	10.7	55.0	2.8	1.0	24.4	2.6	467.2	482.0	466.5	476.0	435.5	461.7	452.3
Russian Federation	207	205	15.4	34.1	28.8	11.7	0.4	10.0	0.5	523.3	506.1	494.9	527.1	449.7	498.8	595.8
Slovenia	66	63	2.0	21.7	34.5	22.0	1.0	19.8	3.2	577.5	529.0	530.3	521.3	495.8	538.9	553.0
Sweden	217	207	4.2	18.0	73.5	2.9	3.6	1.5	1.2	447.8	451.5	458.8	417.2	445.1	412.8	448.8
United States	217	155	13.7	51.0	20.5	3.4	28.1	11.4	0.9	443.5	442.3	431.8	430.4	425.9	456.0	470.9
International Avg (n=9)	2003	1814	7.3	24.8	39.3	7.4	6.6	21.2	1.9	452.0	451.5	449.7	453.3	428.0	442.6	468.0

Question: How often do you have the students do the following activities on computers, tablets, calculators, or smartphones during physics lessons.

Draw graphs of functions

Location: TQP-20Bd (PTBP20BD)

Country	Sample	Valid N	1.Every y or almost every day %	2.Once or twice a week %	3.Once or twice a month %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every y or almost every day Mean	2.Once or twice a week Mean	3.Once or twice a month Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	396	2.1	23.7	55.8	5.0	9.3	13.4	2.2	386.8	375.2	373.5	383.9	355.6	371.2	393.8
Italy	279	248	10.2	14.0	21.7	12.4	8.4	41.6	2.7	327.8	388.3	369.9	391.9	302.6	388.5	440.2
Lebanon	257	242	5.5	8.1	10.6	6.7	0.5	69.1	4.0	437.5	390.8	379.9	440.8	402.6	412.9	395.2
Norway	161	150	5.7	27.4	59.4	7.5	7.0	0.0	1.1	509.9	514.3	499.1	524.3	538.9	.	428.8
Portugal	149	145	4.9	19.7	49.7	1.3	1.0	24.5	2.8	470.3	472.6	468.5	438.2	435.5	461.7	451.6
Russian Federation	207	202	2.1	18.2	41.4	28.3	0.4	10.0	1.4	559.1	510.5	511.9	497.6	449.7	498.8	539.1
Slovenia	66	63	1.6	17.0	40.6	20.9	1.0	19.8	3.2	581.1	505.7	543.7	514.1	495.8	538.9	553.0
Sweden	217	206	5.6	18.3	67.9	6.8	3.6	1.5	1.5	448.3	438.3	457.8	487.2	445.1	412.8	455.5
United States	217	155	8.8	41.5	25.6	12.8	28.1	11.4	0.9	451.8	462.9	423.0	389.1	425.9	456.0	470.9
International Avg (n=9)	2003	1807	5.2	20.9	41.4	11.3	6.6	21.2	2.2	463.6	451.0	447.5	451.9	428.0	442.6	458.7

Question: How often do you have the students do the following activities on computers, tablets, calculators, or smartphones during physics lessons.

Solve equations

Location: TQP-20Be (PTBP20BE)

Country	Sample	Valid N	1.Every y or almost every day %	2.Once or twice a week %	3.Once or twice a month %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every y or almost every day Mean	2.Once or twice a week Mean	3.Once or twice a month Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	7.7	28.1	24.8	26.0	9.3	13.4	1.7	390.7	373.1	367.2	379.9	355.6	371.2	390.6
Italy	279	247	12.6	10.3	10.0	25.4	8.4	41.8	3.0	348.5	387.5	388.0	372.3	302.6	388.5	417.5
Lebanon	257	244	13.8	9.2	7.4	1.4	0.5	68.3	2.9	432.0	388.2	380.9	388.2	402.6	412.9	397.0
Norway	161	150	27.8	25.6	29.1	17.6	7.0	0.0	1.1	501.5	505.8	510.9	504.1	538.9	.	428.8
Portugal	149	146	19.6	20.0	25.6	10.4	1.0	24.4	2.6	478.3	472.5	472.4	437.4	435.5	461.7	452.3
Russian Federation	207	204	15.6	23.1	17.5	33.9	0.4	10.0	0.7	506.9	517.0	491.3	513.2	449.7	498.8	495.8
Slovenia	66	63	8.3	21.7	19.1	31.1	1.0	19.8	3.2	532.2	530.2	530.7	525.4	495.8	538.9	553.0
Sweden	217	207	11.6	15.6	38.8	32.6	3.6	1.5	1.2	442.3	440.6	451.7	472.6	445.1	412.8	448.8
United States	217	155	37.3	23.9	15.9	11.5	28.1	11.4	0.9	458.1	415.7	405.8	476.0	425.9	456.0	470.9
International Avg (n=9)	2003	1813	17.1	19.7	20.9	21.1	6.6	21.2	1.9	454.5	447.9	444.3	452.1	428.0	442.6	450.5

Question: How often do you have the students do the following activities on computers, tablets, calculators, or smartphones during physics lessons.

Manipulate algebraic expressions

Location: TQP-20Bf (PTBP20BF)

Country	Sample	Valid N	1.Every or almost every day %	2.Once or twice a week %	3.Once or twice a month %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every or almost every day Mean	2.Once or twice a week Mean	3.Once or twice a month Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	398	23.9	32.7	17.2	13.0	9.3	13.3	1.7	378.3	380.5	366.9	366.2	355.6	371.2	389.4
Italy	279	248	12.5	8.6	9.0	28.3	8.4	41.6	2.7	350.4	374.7	394.0	373.1	302.6	388.5	438.3
Lebanon	257	242	11.9	7.5	7.7	3.4	0.5	69.5	4.6	424.6	395.4	383.3	394.8	402.6	412.9	412.6
Norway	161	150	19.5	21.0	29.7	29.8	7.0	0.0	1.1	493.8	501.9	505.1	517.0	538.9	.	428.8
Portugal	149	146	21.3	24.2	18.6	11.5	1.0	24.4	2.6	472.4	471.3	476.0	447.3	435.5	461.7	452.3
Russian Federation	207	205	23.7	21.9	13.3	31.1	0.4	9.9	0.4	507.5	508.3	511.1	509.3	449.7	498.8	487.8
Slovenia	66	63	0.0	11.2	23.0	46.0	1.0	19.8	3.2	.	534.5	535.9	523.6	495.8	538.9	553.0
Sweden	217	206	6.5	5.8	17.7	68.5	3.6	1.5	1.5	448.8	379.0	442.1	466.8	445.1	412.8	435.6
United States	217	155	35.0	15.6	12.5	25.6	28.1	11.4	0.9	451.0	368.8	486.8	444.2	425.9	456.0	470.9
International Avg (n=9)	2003	1813	17.2	16.5	16.5	28.6	6.6	21.3	2.1	440.9	434.9	455.7	449.1	428.0	442.6	452.1

Question: How often do you have the students do the following activities on computers, tablets, calculators, or smartphones during physics lessons.

Conduct modeling and simulations

Location: TQP-20Bg (PTBP20BG)

Country	Sample	Valid N	1.Every y or almost every day %	2.Once or twice a week %	3.Once or twice a month %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every y or almost every day Mean	2.Once or twice a week Mean	3.Once or twice a month Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	3.8	29.8	48.5	4.7	9.3	13.4	1.7	372.1	377.9	373.0	380.7	355.6	371.2	389.3
Italy	279	248	4.1	9.2	21.9	23.3	8.4	41.6	2.7	390.3	327.8	384.0	374.2	302.6	388.5	438.3
Lebanon	257	242	4.2	11.8	6.7	8.5	0.5	68.9	3.7	437.1	393.2	388.5	425.2	402.6	412.9	388.5
Norway	161	150	1.3	12.7	63.9	22.2	7.0	0.0	1.1	504.5	508.2	507.6	499.3	538.9	.	428.8
Portugal	149	145	1.0	4.0	53.5	17.0	1.0	24.4	2.7	404.4	464.9	470.9	468.5	435.5	461.7	452.8
Russian Federation	207	203	1.9	14.9	36.5	36.6	0.4	10.0	1.2	533.2	505.6	497.9	518.7	449.7	498.8	534.8
Slovenia	66	63	0.0	13.1	44.6	22.6	1.0	19.8	3.2	.	511.0	523.9	548.2	495.8	538.9	553.0
Sweden	217	207	0.7	9.9	69.7	18.3	3.6	1.5	1.2	348.2	425.6	465.5	438.9	445.1	412.8	448.8
United States	217	155	3.8	31.4	38.5	14.9	28.1	11.4	0.9	427.5	417.7	478.0	390.0	425.9	456.0	470.9
International Avg (n=9)	2003	1810	2.3	15.2	42.6	18.7	6.6	21.2	2.0	427.2	436.9	454.3	449.3	428.0	442.6	456.1

Question: How often do you have the students do the following activities on computers, tablets, calculators, or smartphones during physics lessons.

Perform numerical integration

Location: TQP-20Bh (PTBP20BH)

Country	Sample	Valid N	1.Every y or almost every day %	2.Once or twice a week %	3.Once or twice a month %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every y or almost every day Mean	2.Once or twice a week Mean	3.Once or twice a month Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	398	0.0	1.1	7.0	78.5	9.3	13.3	1.7	.	402.8	360.3	376.0	355.6	371.2	389.4
Italy	279	246	1.6	7.5	10.6	38.4	8.4	41.9	3.3	383.9	352.6	374.2	375.5	302.6	388.5	413.5
Lebanon	257	241	7.3	9.4	10.1	3.4	0.5	69.9	5.1	439.6	387.4	392.8	402.1	402.6	412.9	412.4
Norway	161	150	0.5	5.6	45.1	48.8	7.0	0.0	1.1	575.4	504.2	506.2	504.8	538.9	.	428.8
Portugal	149	146	0.0	0.0	4.9	70.7	1.0	24.4	2.6	.	.	461.3	469.6	435.5	461.7	452.3
Russian Federation	207	204	1.3	3.2	18.5	67.0	0.4	10.0	1.0	482.8	517.8	509.6	508.0	449.7	498.8	548.7
Slovenia	66	63	0.0	5.9	11.6	62.7	1.0	19.8	3.2	.	531.7	565.9	521.5	495.8	538.9	553.0
Sweden	217	205	0.3	4.1	47.2	46.9	3.6	1.5	1.8	428.3	425.9	463.4	451.2	445.1	412.8	439.5
United States	217	155	5.9	20.6	23.7	38.4	28.1	11.4	0.9	427.6	452.2	460.9	421.6	425.9	456.0	470.9
International Avg (n=9)	2003	1808	1.9	6.4	19.9	50.5	6.6	21.3	2.3	456.3	446.8	454.9	447.8	428.0	442.6	456.5

Question: How often do you have the students do the following activities on computers, tablets, calculators, or smartphones during physics lessons.

Do scientific procedures or experiments

Location: TQP-20Bi (PTBP20BI)

Country	Sample	Valid N	1.Every y or almost every day %	2.Once or twice a week %	3.Once or twice a month %	4.Neve r or almost never %	Not Admini stered %	Not Applic able %	Omitte d %	1.Every y or almost every day Mean	2.Once or twice a week Mean	3.Once or twice a month Mean	4.Neve r or almost never Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	398	7.7	41.6	32.4	5.0	9.3	13.3	1.7	388.4	379.3	365.9	379.2	355.6	371.2	389.4
Italy	279	249	1.6	7.3	25.1	24.6	8.4	41.4	2.4	349.2	369.6	370.6	375.6	302.6	388.5	441.7
Lebanon	257	242	4.3	6.7	14.3	5.1	0.5	69.5	4.6	449.2	398.0	390.4	409.3	402.6	412.9	412.6
Norway	161	150	0.5	4.7	66.3	28.5	7.0	0.0	1.1	575.4	511.0	505.8	503.7	538.9	.	428.8
Portugal	149	146	0.5	6.6	51.4	17.1	1.0	24.4	2.6	519.3	452.7	471.4	467.1	435.5	461.7	452.3
Russian Federation	207	203	2.4	15.5	49.0	23.0	0.4	10.1	1.6	585.2	524.2	515.5	471.4	449.7	498.8	568.2
Slovenia	66	63	0.8	11.6	49.9	17.9	1.0	19.8	3.2	546.0	530.2	538.7	498.9	495.8	538.9	553.0
Sweden	217	205	0.0	9.0	70.7	18.8	3.6	1.5	1.8	.	458.3	460.0	442.5	445.1	412.8	411.4
United States	217	155	2.5	38.9	36.2	11.1	28.1	11.4	0.9	470.5	442.5	427.5	462.2	425.9	456.0	470.9
International Avg (n=9)	2003	1811	2.3	15.8	43.9	16.8	6.6	21.3	2.2	485.4	451.7	449.5	445.5	428.0	442.6	458.7

Question: Does your school have a physics laboratory
Location: TQP-21A (PTBP21A)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	400	99.3	0.7	9.3	0.0	1.3	375.0	337.5	355.6	.	381.6
Italy	279	238	89.8	10.2	8.4	0.0	6.3	387.7	299.8	302.6	.	403.4
Lebanon	257	238	94.1	5.9	0.5	0.0	5.1	411.9	395.6	402.6	.	397.2
Norway	161	151	92.0	8.0	7.0	0.0	0.0	505.7	495.1	538.9	.	.
Portugal	149	136	94.7	5.3	1.0	0.0	10.5	463.8	452.3	435.5	.	498.3
Russian Federation	207	200	86.8	13.2	0.4	0.0	2.1	508.5	509.3	449.7	.	467.1
Slovenia	66	64	61.7	38.3	1.0	0.0	2.0	538.4	518.7	495.8	.	556.4
Sweden	217	206	88.4	11.6	3.6	0.0	1.5	461.1	411.0	445.1	.	440.0
United States	217	150	58.8	41.2	28.1	0.0	2.9	462.9	404.9	425.9	.	509.4
International Avg (n=9)	2003	1783	85.1	14.9	6.6	0.0	3.5	457.2	424.9	428.0	.	456.7

Question: Do teachers usually have assistance available when students are conducting physics experiments
Location: TQP-21B (PTBP21B)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	400	37.8	62.2	9.3	0.0	1.3	386.4	367.7	355.6	.	381.6
Italy	279	235	61.0	39.0	8.4	0.0	7.3	384.9	368.4	302.6	.	403.1
Lebanon	257	229	50.8	49.2	0.5	0.0	8.6	414.7	404.1	402.6	.	417.6
Norway	161	151	6.0	94.0	7.0	0.0	0.0	505.0	504.9	538.9	.	.
Portugal	149	137	6.5	93.5	1.0	0.0	9.0	448.4	465.6	435.5	.	491.4
Russian Federation	207	197	56.5	43.5	0.4	0.0	4.0	503.4	511.4	449.7	.	527.6
Slovenia	66	64	87.8	12.2	1.0	0.0	2.0	526.6	561.6	495.8	.	556.4
Sweden	217	208	1.4	98.6	3.6	0.0	0.3	427.0	455.3	445.1	.	494.0
United States	217	150	6.2	93.8	28.1	0.0	2.9	443.2	438.7	425.9	.	509.4
International Avg (n=9)	2003	1771	34.9	65.1	6.6	0.0	3.9	448.9	453.1	428.0	.	472.6

Question: When students in this class have been taught each of the following Advanced physics topics. Mechanics and Thermodynamics: Applying
Newton's laws and laws of motion
Location: TQP-22Aa (PTBP22AA)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	4.2	93.6	2.2	9.3	0.0	1.6	382.8	373.7	398.3	355.6	.	385.2
Italy	279	251	99.4	0.0	0.6	8.4	0.0	2.0	380.3	.	220.5	302.6	.	429.9
Lebanon	257	248	90.1	9.9	0.0	1.9	0.0	0.1	408.1	433.6	.	389.6	.	375.9
Norway	161	151	68.5	30.9	0.6	7.0	0.0	0.0	502.2	514.2	335.4	538.9	.	.
Portugal	149	147	69.8	30.2	0.0	1.0	0.0	0.4	462.5	475.4	.	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	94.0	6.0	0.0	1.0	0.0	2.0	534.6	473.5	.	495.8	.	556.4
Sweden	217	208	88.1	10.8	1.1	3.6	0.0	0.4	459.5	431.2	320.9	445.1	.	478.0
United States	217	153	33.3	66.5	0.2	28.1	0.0	5.2	446.1	441.7	379.6	425.9	.	427.1
International Avg (n=8)	2003	1619	68.4	31.0	0.6	7.5	0.0	1.5	447.0	449.0	330.9	423.6	.	461.6

Question: When students in this class have been taught each of the following Advanced physics topics. Mechanics and Thermodynamics: Forces, including frictional force, acting on a body

Location: TQP-22Ab (PTBP22AB)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	27.3	66.5	6.3	9.3	0.0	1.6	366.5	378.5	369.3	355.6	.	385.2
Italy	279	251	98.9	0.4	0.6	8.4	0.0	2.0	380.0	447.5	220.5	302.6	.	429.9
Lebanon	257	249	89.8	10.2	0.0	1.9	0.0	0.1	409.2	425.6	.	374.3	.	375.9
Norway	161	151	69.9	29.4	0.6	7.0	0.0	0.0	502.8	513.4	335.4	538.9	.	.
Portugal	149	147	38.7	61.3	0.0	1.0	0.0	0.4	465.0	467.3	.	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	94.0	6.0	0.0	1.0	0.0	2.0	534.6	473.5	.	495.8	.	556.4
Sweden	217	208	92.5	6.6	0.9	3.6	0.0	0.4	455.0	473.7	299.3	445.1	.	478.0
United States	217	153	31.3	68.7	0.0	28.1	0.0	5.2	450.6	439.5	.	425.9	.	427.1
International Avg (n=8)	2003	1620	67.8	31.1	1.0	7.5	0.0	1.5	445.5	452.4	306.1	421.7	.	461.6

Question: When students in this class have been taught each of the following Advanced physics topics. Mechanics and Thermodynamics: Forces acting on a body moving in a circular path; the body's centripetal acceleration, speed, and circling time

Location: TQP-22Ac (PTBP22AC)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	396	5.4	90.3	4.3	9.3	0.0	1.6	384.1	373.7	382.5	355.6	.	386.1
Italy	279	251	98.6	0.8	0.6	8.4	0.0	2.0	380.5	356.8	220.5	302.6	.	429.9
Lebanon	257	253	92.3	7.7	0.0	0.5	0.0	0.1	409.8	415.7	.	402.6	.	375.9
Norway	161	151	0.0	99.4	0.6	7.0	0.0	0.0	.	506.0	335.4	538.9	.	.
Portugal	149	146	51.6	48.4	0.0	1.0	0.0	0.8	457.5	475.6	.	435.5	.	545.6
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	94.0	6.0	0.0	1.0	0.0	2.0	534.6	473.5	.	495.8	.	556.4
Sweden	217	208	20.7	78.4	0.9	3.6	0.0	0.4	460.7	455.1	299.3	445.1	.	478.0
United States	217	153	24.7	72.5	2.8	28.1	0.0	5.2	455.1	440.9	389.2	425.9	.	427.1
International Avg (n=8)	2003	1622	48.4	50.4	1.1	7.4	0.0	1.5	440.3	437.2	325.4	425.2	.	457.0

Question: When students in this class have been taught each of the following Advanced physics topics. Mechanics and Thermodynamics: The law of gravitation in relation to the movement of celestial objects

Location: TQP-22Ad (PTBP22AD)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	23.9	73.9	2.2	9.3	0.0	1.6	372.3	374.6	400.4	355.6	.	385.2
Italy	279	250	97.3	0.7	2.0	8.4	0.0	2.2	381.3	402.6	276.9	302.6	.	425.1
Lebanon	257	245	90.1	5.2	4.7	4.2	0.0	0.1	412.2	387.7	409.0	396.5	.	375.9
Norway	161	151	0.0	98.7	1.3	7.0	0.0	0.0	.	506.1	409.4	538.9	.	.
Portugal	149	145	30.9	65.0	4.1	1.0	0.0	3.8	462.0	470.1	460.5	435.5	.	459.6
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	89.2	10.8	0.0	1.0	0.0	2.0	535.1	496.2	.	495.8	.	556.4
Sweden	217	208	27.0	66.8	6.1	3.6	0.0	0.4	450.6	462.4	393.0	445.1	.	478.0
United States	217	153	24.9	69.7	5.4	28.1	0.0	5.2	439.7	445.5	425.0	425.9	.	427.1
International Avg (n=8)	2003	1613	47.9	48.9	3.2	7.8	0.0	1.9	436.2	443.2	396.3	424.5	.	443.9

Question: When students in this class have been taught each of the following Advanced physics topics. Mechanics and Thermodynamics: Kinetic and potential energy; conservation of mechanical energy

Location: TQP-22Ae (PTBP22AE)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	35.3	61.5	3.2	9.3	0.0	1.6	367.9	378.8	369.1	355.6	.	385.2
Italy	279	251	98.9	0.5	0.6	8.4	0.0	2.0	380.8	283.4	220.5	302.6	.	429.9
Lebanon	257	231	46.2	53.8	0.0	8.6	0.0	1.0	412.5	410.6	.	395.0	.	419.7
Norway	161	151	73.8	25.6	0.6	7.0	0.0	0.0	505.0	508.6	335.4	538.9	.	.
Portugal	149	146	87.5	12.5	0.0	1.0	0.0	2.7	465.1	477.7	.	435.5	.	475.3
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	92.1	7.9	0.0	1.0	0.0	2.0	534.9	483.6	.	495.8	.	556.4
Sweden	217	207	93.9	4.6	1.5	3.6	0.0	0.6	458.4	405.1	379.7	445.1	.	493.8
United States	217	153	32.1	66.9	1.0	28.1	0.0	5.2	445.9	442.3	390.9	425.9	.	427.1
International Avg (n=8)	2003	1600	70.0	29.2	0.9	8.4	0.0	1.9	446.3	423.8	339.1	424.3	.	455.4

Question: When students in this class have been taught each of the following Advanced physics topics. Mechanics and Thermodynamics: The law of conservation of momentum; elastic and inelastic collisions

Location: TQP-22Af (PTBP22AF)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	2.4	75.3	22.3	9.3	0.0	1.6	403.3	371.2	383.2	355.6	.	385.2
Italy	279	251	97.8	0.0	2.2	8.4	0.0	2.0	381.2	.	297.1	302.6	.	429.9
Lebanon	257	251	8.8	88.5	2.7	0.7	0.0	0.7	409.5	410.9	384.8	398.3	.	435.2
Norway	161	151	1.4	98.0	0.6	7.0	0.0	0.0	504.5	506.0	335.4	538.9	.	.
Portugal	149	147	3.4	88.6	8.0	1.0	0.0	0.4	461.6	467.3	458.2	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	78.6	21.4	0.0	1.0	0.0	2.0	533.7	520.5	.	495.8	.	556.4
Sweden	217	207	89.6	6.4	4.0	3.6	0.0	0.9	459.8	428.7	391.2	445.1	.	452.0
United States	217	153	30.9	68.5	0.6	28.1	0.0	5.2	443.6	443.5	359.5	425.9	.	427.1
International Avg (n=8)	2003	1621	39.1	55.8	5.0	7.4	0.0	1.6	449.7	449.7	372.8	424.7	.	466.4

Question: When students in this class have been taught each of the following Advanced physics topics. Mechanics and Thermodynamics: The first law of thermodynamics

Location: TQP-22Ag (PTBP22AG)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	396	6.1	31.1	62.9	9.3	0.0	1.9	366.9	368.9	378.0	355.6	.	391.4
Italy	279	251	98.1	0.0	1.9	8.4	0.0	2.0	379.7	.	359.1	302.6	.	429.9
Lebanon	257	249	27.0	4.1	68.9	0.5	0.0	1.6	412.7	404.8	409.9	402.6	.	394.2
Norway	161	151	98.5	0.7	0.8	7.0	0.0	0.0	504.3	527.8	558.2	538.9	.	.
Portugal	149	147	98.4	0.5	1.1	1.0	0.0	0.4	465.9	424.1	534.7	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	93.5	6.5	0.0	1.0	0.0	2.0	534.9	473.4	.	495.8	.	556.4
Sweden	217	208	92.8	4.8	2.3	3.6	0.0	0.4	458.4	425.8	376.3	445.1	.	478.0
United States	217	152	27.1	24.4	48.5	28.1	0.0	6.5	446.5	416.6	457.6	425.9	.	414.3
International Avg (n=8)	2003	1618	67.7	9.0	23.3	7.4	0.0	1.8	446.2	434.5	439.1	425.2	.	463.3

Question: When students in this class have been taught each of the following Advanced physics topics. Mechanics and Thermodynamics: Heat transfer and specific heat capacities

Location: TQP-22Ah (PTBP22AH)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	22.5	64.3	13.2	9.3	0.0	1.6	375.1	374.2	376.0	355.6	.	385.2
Italy	279	251	97.9	0.0	2.1	8.4	0.0	2.0	379.3	.	381.2	302.6	.	429.9
Lebanon	257	249	35.9	4.3	59.8	0.6	0.0	1.3	413.1	395.1	410.4	370.3	.	389.2
Norway	161	151	70.7	0.7	28.6	7.0	0.0	0.0	503.9	527.8	506.9	538.9	.	.
Portugal	149	147	100.0	0.0	0.0	1.0	0.0	0.4	466.4	.	.	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	94.1	5.9	0.0	1.0	0.0	2.0	529.6	552.1	.	495.8	.	556.4
Sweden	217	208	93.6	4.3	2.0	3.6	0.0	0.4	458.3	427.0	361.6	445.1	.	478.0
United States	217	152	29.5	22.4	48.1	28.1	0.0	6.5	446.2	431.3	449.8	425.9	.	414.3
International Avg (n=8)	2003	1619	68.0	12.7	19.2	7.4	0.0	1.8	446.5	451.2	414.3	421.2	.	461.7

Question: When students in this class have been taught each of the following Advanced physics topics. Mechanics and Thermodynamics: The law of ideal gases; expansion of solids and liquids in relation to temperature change

Location: TQP-22Ai (PTBP22Ai)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	32.5	4.0	63.4	9.3	0.0	1.6	373.7	360.4	376.0	355.6	.	385.2
Italy	279	251	98.1	0.0	1.9	8.4	0.0	2.0	379.7	.	359.1	302.6	.	429.9
Lebanon	257	250	32.8	1.3	66.0	0.5	0.0	1.3	407.2	428.6	411.8	402.6	.	389.2
Norway	161	150	41.8	0.0	58.2	7.0	0.0	1.1	502.9	.	507.8	538.9	.	428.8
Portugal	149	147	34.5	2.8	62.7	1.0	0.0	0.4	466.0	485.8	465.7	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	94.4	5.6	0.0	1.0	0.0	2.0	530.3	541.1	.	495.8	.	556.4
Sweden	217	206	87.1	3.2	9.7	3.6	0.0	0.7	459.5	402.5	430.5	445.1	.	480.8
United States	217	152	35.9	20.0	44.1	28.1	0.0	6.5	447.3	424.5	451.4	425.9	.	414.3
International Avg (n=8)	2003	1617	57.1	4.6	38.3	7.4	0.0	1.9	445.8	440.5	428.9	425.2	.	457.9

Question: When students in this class have been taught each of the following Advanced physics topics. Electricity and Magnetism: Electrostatic attraction or repulsion between isolated charged particles - Coulomb's law

Location: TQP-22Ba (PTBP22BA)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	82.8	10.3	6.9	9.3	0.0	1.6	374.2	362.1	399.2	355.6	.	385.2
Italy	279	252	68.6	31.4	0.0	8.4	0.0	1.6	399.7	335.2	.	302.6	.	432.8
Lebanon	257	253	94.8	4.7	0.5	0.5	0.0	0.1	409.2	432.7	398.1	402.6	.	375.9
Norway	161	151	5.5	92.5	2.0	7.0	0.0	0.0	496.7	506.9	435.2	538.9	.	.
Portugal	149	147	7.5	84.8	7.7	1.0	0.0	0.4	490.2	467.0	437.0	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	72.0	26.6	1.4	1.0	0.0	2.0	524.1	549.4	527.2	495.8	.	556.4
Sweden	217	208	89.7	9.2	1.1	3.6	0.0	0.4	455.0	476.0	279.6	445.1	.	478.0
United States	217	153	25.5	54.2	20.3	28.1	0.0	5.2	443.3	465.4	382.5	425.9	.	427.1
International Avg (n=8)	2003	1625	55.8	39.2	5.0	7.4	0.0	1.4	449.1	449.3	408.4	425.2	.	462.0

Question: When students in this class have been taught each of the following Advanced physics topics. Electricity and Magnetism: Charged particles in an electric field

Location: TQP-22Bb (PTBP22BB)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	21.7	74.7	3.6	9.3	0.0	1.6	375.4	373.4	396.2	355.6	.	385.2
Italy	279	250	57.3	42.7	0.0	8.4	0.0	2.1	403.7	345.9	.	302.6	.	441.8
Lebanon	257	248	86.3	8.3	5.5	0.7	0.0	2.0	410.9	413.0	393.7	418.6	.	407.2
Norway	161	151	0.4	97.2	2.4	7.0	0.0	0.0	500.5	506.3	449.6	538.9	.	.
Portugal	149	147	11.8	81.8	6.4	1.0	0.0	0.4	473.7	467.9	434.3	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	68.8	29.8	1.4	1.0	0.0	2.0	523.0	549.3	527.2	495.8	.	556.4
Sweden	217	208	49.4	48.2	2.3	3.6	0.0	0.4	445.6	470.2	336.2	445.1	.	478.0
United States	217	153	23.6	42.5	34.0	28.1	0.0	5.2	442.6	479.3	397.8	425.9	.	427.1
International Avg (n=8)	2003	1618	39.9	53.1	7.0	7.4	0.0	1.7	446.9	450.7	419.3	427.2	.	467.8

Question: When students in this class have been taught each of the following Advanced physics topics. Electricity and Magnetism: Electrical circuits;
 using Ohm's law and Joule's law

Location: TQP-22Bc (PTBP22BC)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	395	69.6	2.9	27.6	9.3	0.0	2.0	374.4	385.3	372.6	355.6	.	400.7
Italy	279	252	35.9	64.1	0.0	8.4	0.0	1.6	401.5	367.2	.	302.6	.	432.8
Lebanon	257	245	88.3	11.7	0.0	3.4	0.0	0.7	409.0	420.8	.	397.9	.	435.2
Norway	161	151	92.3	7.7	0.0	7.0	0.0	0.0	504.0	515.2	.	538.9	.	.
Portugal	149	147	22.3	57.4	20.3	1.0	0.0	0.4	466.3	468.1	461.8	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	72.7	25.9	1.4	1.0	0.0	2.0	523.4	552.1	527.2	495.8	.	556.4
Sweden	217	208	95.9	2.4	1.7	3.6	0.0	0.4	457.3	434.0	354.5	445.1	.	478.0
United States	217	153	24.4	53.4	22.2	28.1	0.0	5.2	439.5	465.6	392.6	425.9	.	427.1
International Avg (n=8)	2003	1615	62.7	28.2	9.2	7.7	0.0	1.6	446.9	451.0	421.7	424.7	.	472.7

Question: When students in this class have been taught each of the following Advanced physics topics. Electricity and Magnetism: Charged particles in a magnetic field

Location: TQP-22Bd (PTBP22BD)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	396	17.7	10.8	71.5	9.3	0.0	1.6	377.9	369.7	374.6	355.6	.	385.7
Italy	279	252	9.1	88.4	2.5	8.4	0.0	1.6	392.6	380.7	290.3	302.6	.	432.8
Lebanon	257	248	67.7	6.6	25.7	1.1	0.0	0.7	413.8	399.6	401.9	433.9	.	416.8
Norway	161	151	0.0	95.5	4.5	7.0	0.0	0.0	.	508.1	437.3	538.9	.	.
Portugal	149	147	4.5	56.4	39.1	1.0	0.0	0.4	459.4	465.3	468.8	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	61.9	36.9	1.2	1.0	0.0	2.0	523.5	545.9	446.3	495.8	.	556.4
Sweden	217	208	12.7	78.2	9.0	3.6	0.0	0.4	433.7	466.3	386.4	445.1	.	478.0
United States	217	153	13.3	35.1	51.6	28.1	0.0	5.2	482.8	473.0	412.3	425.9	.	427.1
International Avg (n=8)	2003	1619	23.4	51.0	25.6	7.4	0.0	1.5	440.5	451.1	402.2	429.2	.	467.9

Question: When students in this class have been taught each of the following Advanced physics topics. Electricity and Magnetism: Relationship between magnetism and electricity; magnetic fields around electric conductors; electromagnetic induction

Location: TQP-22Be (PTBP22BE)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	396	17.0	1.5	81.5	9.3	0.0	1.6	375.6	397.1	374.0	355.6	.	385.7
Italy	279	252	3.3	90.9	5.8	8.4	0.0	1.6	416.1	381.2	331.5	302.6	.	432.8
Lebanon	257	237	40.5	57.7	1.8	7.1	0.0	0.7	415.0	404.8	379.3	429.4	.	435.2
Norway	161	151	0.0	89.6	10.4	7.0	0.0	0.0	.	507.8	479.2	538.9	.	.
Portugal	149	147	50.5	33.2	16.3	1.0	0.0	0.4	468.5	464.5	464.0	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	55.7	43.1	1.2	1.0	0.0	2.0	524.5	541.4	446.3	495.8	.	556.4
Sweden	217	208	11.8	75.9	12.3	3.6	0.0	0.4	433.8	468.1	393.9	445.1	.	478.0
United States	217	153	12.1	33.1	54.8	28.1	0.0	5.2	472.3	474.8	417.3	425.9	.	427.1
International Avg (n=8)	2003	1608	23.9	53.1	23.0	8.2	0.0	1.5	443.7	455.0	410.7	428.6	.	470.6

Question: When students in this class have been taught each of the following Advanced physics topics. Electricity and Magnetism: Faraday's and Lenz's laws of induction

Location: TQP-22Bf (PTBP22BF)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	396	2.7	0.8	96.5	9.3	0.0	1.6	361.2	388.2	374.9	355.6	.	385.7
Italy	279	252	2.2	87.7	10.0	8.4	0.0	1.6	394.0	388.6	296.0	302.6	.	432.8
Lebanon	257	248	11.7	86.6	1.7	0.8	0.0	1.5	404.1	411.4	379.3	381.3	.	434.6
Norway	161	151	0.0	84.4	15.6	7.0	0.0	0.0	.	508.4	485.9	538.9	.	.
Portugal	149	146	47.5	21.2	31.3	1.0	0.0	0.8	465.2	465.0	468.9	435.5	.	539.9
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	52.2	42.3	5.5	1.0	0.0	2.0	520.6	547.3	502.8	495.8	.	556.4
Sweden	217	208	11.8	72.7	15.5	3.6	0.0	0.4	433.8	468.9	405.7	445.1	.	478.0
United States	217	153	8.8	30.8	60.4	28.1	0.0	5.2	485.1	477.0	419.4	425.9	.	427.1
International Avg (n=8)	2003	1618	17.1	53.3	29.6	7.4	0.0	1.6	437.7	456.8	416.6	422.6	.	464.9

Question: When students in this class have been taught each of the following Advanced physics topics. Wave Phenomena and Atomic/Nuclear Physics:

Mechanical waves; the relationship between speed, frequency, and wavelength

Location: TQP-22Ca (PTBP22CA)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	398	7.1	91.2	1.7	9.3	0.0	1.5	385.0	373.6	389.9	355.6	.	383.8
Italy	279	252	77.3	13.4	9.3	8.4	0.0	1.6	391.1	368.6	299.1	302.6	.	432.8
Lebanon	257	249	86.9	12.6	0.5	1.7	0.0	0.7	406.0	432.4	398.1	446.1	.	435.2
Norway	161	151	99.3	0.7	0.0	7.0	0.0	0.0	505.9	360.8	.	538.9	.	.
Portugal	149	146	88.2	6.0	5.8	1.0	0.0	1.3	465.8	468.3	471.0	435.5	.	516.1
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	63	58.6	40.0	1.4	1.0	0.0	4.0	522.3	546.4	527.2	495.8	.	517.5
Sweden	217	209	19.5	72.8	7.7	3.6	0.0	0.0	442.0	457.7	462.5	445.1	.	.
United States	217	153	38.2	46.2	15.6	28.1	0.0	5.2	466.1	440.9	392.5	425.9	.	427.1
International Avg (n=8)	2003	1621	59.4	35.3	5.3	7.5	0.0	1.8	448.0	431.1	420.1	430.7	.	452.1

Question: When students in this class have been taught each of the following Advanced physics topics. Wave Phenomena and Atomic/Nuclear Physics:
Electromagnetic radiation; wavelength and frequency of various types of waves (radio, infrared, visible light, x-rays, gamma rays)
Location: TQP-22Cb (PTBP22CB)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	398	21.5	76.2	2.3	9.3	0.0	1.5	374.4	374.8	374.3	355.6	.	383.8
Italy	279	252	9.6	62.5	27.8	8.4	0.0	1.6	419.2	392.4	336.9	302.6	.	432.8
Lebanon	257	246	40.6	58.6	0.8	2.2	0.0	0.7	410.2	410.8	365.7	400.8	.	435.2
Norway	161	151	95.9	3.3	0.9	7.0	0.0	0.0	505.3	492.0	504.5	538.9	.	.
Portugal	149	147	90.4	6.6	3.0	1.0	0.0	0.4	464.6	480.3	490.7	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	63	29.9	68.2	1.9	1.0	0.0	4.0	517.9	537.2	565.0	495.8	.	517.5
Sweden	217	209	17.5	60.0	22.5	3.6	0.0	0.0	438.8	461.8	449.5	445.1	.	.
United States	217	152	30.5	33.7	35.8	28.1	0.0	5.3	452.5	458.7	419.4	425.9	.	430.4
International Avg (n=8)	2003	1618	42.0	46.1	11.9	7.6	0.0	1.7	447.9	451.0	438.3	425.0	.	463.1

Question: When students in this class have been taught each of the following Advanced physics topics. Wave Phenomena and Atomic/Nuclear Physics:

Thermal radiation, temperature, and wavelength

Location: TQP-22Cc (PTBP22CC)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	60.5	31.3	8.2	9.3	0.0	1.6	372.4	375.3	388.8	355.6	.	384.4
Italy	279	248	37.4	24.2	38.4	8.4	0.0	2.7	375.9	418.0	358.6	302.6	.	411.6
Lebanon	257	248	26.2	28.1	45.7	0.7	0.0	1.0	410.7	403.6	413.5	421.9	.	422.2
Norway	161	151	98.5	0.8	0.7	7.0	0.0	0.0	504.7	483.1	562.2	538.9	.	.
Portugal	149	147	93.5	2.4	4.1	1.0	0.0	0.4	464.5	461.5	512.5	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	63	37.5	57.5	5.0	1.0	0.0	4.0	514.4	542.9	538.1	495.8	.	517.5
Sweden	217	209	13.4	46.7	39.9	3.6	0.0	0.0	419.2	462.5	458.3	445.1	.	.
United States	217	153	12.6	29.2	58.2	28.1	0.0	5.2	464.9	436.0	441.7	425.9	.	427.1
International Avg (n=8)	2003	1616	47.5	27.5	25.0	7.4	0.0	1.9	440.8	447.9	459.2	427.7	.	456.9

Question: When students in this class have been taught each of the following Advanced physics topics. Wave Phenomena and Atomic/Nuclear Physics:

Reflection, refraction, interference, and diffraction

Location: TQP-22Cd (PTBP22CD)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	17.4	79.9	2.6	9.3	0.0	1.9	381.0	372.3	390.2	355.6	.	399.9
Italy	279	250	74.5	10.5	15.0	8.4	0.0	2.3	391.2	363.8	329.6	302.6	.	434.1
Lebanon	257	214	34.7	65.0	0.3	16.5	0.0	0.4	408.2	406.2	450.2	425.8	.	418.9
Norway	161	151	88.0	0.7	11.3	7.0	0.0	0.0	506.1	360.8	503.7	538.9	.	.
Portugal	149	147	94.7	1.9	3.3	1.0	0.0	0.4	465.5	476.1	486.6	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	63	48.2	48.8	2.9	1.0	0.0	4.0	520.0	544.3	524.6	495.8	.	517.5
Sweden	217	209	15.4	68.0	16.5	3.6	0.0	0.0	429.9	465.1	437.2	445.1	.	.
United States	217	153	20.5	35.1	44.4	28.1	0.0	5.2	484.3	445.8	421.7	425.9	.	427.1
International Avg (n=8)	2003	1584	49.2	38.8	12.1	9.4	0.0	1.8	448.3	429.3	443.0	428.1	.	462.7

Question: When students in this class have been taught each of the following Advanced physics topics. Wave Phenomena and Atomic/Nuclear Physics:

The structure of the atom and its nucleus; atomic number and atomic mass; electromagnetic emission and absorption and the behavior of electrons

Location: TQP-22Ce (PTBP22CE)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	398	72.6	25.6	1.8	9.3	0.0	1.5	376.3	369.2	386.8	355.6	.	383.8
Italy	279	251	6.6	28.6	64.9	8.4	0.0	2.1	346.6	388.9	379.1	302.6	.	410.3
Lebanon	257	252	8.4	89.6	2.0	0.5	0.0	0.7	395.9	411.8	388.5	402.6	.	435.2
Norway	161	151	96.9	2.3	0.8	7.0	0.0	0.0	506.6	443.1	473.4	538.9	.	.
Portugal	149	147	93.7	1.6	4.8	1.0	0.0	0.4	465.8	476.4	475.7	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	63	11.5	84.5	4.0	1.0	0.0	4.0	526.3	530.0	591.3	495.8	.	517.5
Sweden	217	209	37.4	34.7	28.0	3.6	0.0	0.0	452.9	473.5	434.9	445.1	.	.
United States	217	153	50.3	17.3	32.4	28.1	0.0	5.2	449.8	417.9	445.9	425.9	.	427.1
International Avg (n=8)	2003	1624	47.2	35.5	17.3	7.4	0.0	1.7	440.0	438.8	446.9	425.2	.	458.8

Question: When students in this class have been taught each of the following Advanced physics topics. Wave Phenomena and Atomic/Nuclear Physics:
 Wave-particle duality and the photoelectric effect; types of nuclear reactions and their role in nature (e.g., in stars) and society;
 radioactive isotopes

Location: TQP-22Cf (PTBP22CF)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	396	18.5	70.1	11.5	9.3	0.0	1.9	385.0	371.4	374.5	355.6	.	399.9
Italy	279	250	0.7	18.6	80.8	8.4	0.0	2.4	386.7	392.3	377.5	302.6	.	385.3
Lebanon	257	251	5.8	91.7	2.5	0.7	0.0	0.7	402.7	410.8	395.4	419.2	.	435.2
Norway	161	151	21.0	45.9	33.1	7.0	0.0	0.0	513.5	501.1	504.6	538.9	.	.
Portugal	149	147	47.6	32.0	20.4	1.0	0.0	0.4	458.4	467.7	483.1	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	63	11.5	76.9	11.6	1.0	0.0	4.0	526.3	526.3	575.1	495.8	.	517.5
Sweden	217	209	21.3	43.1	35.6	3.6	0.0	0.0	440.7	467.6	448.4	445.1	.	.
United States	217	153	17.1	24.8	58.1	28.1	0.0	5.2	487.6	450.1	426.8	425.9	.	427.1
International Avg (n=8)	2003	1620	17.9	50.4	31.7	7.4	0.0	1.8	450.1	448.4	448.2	427.3	.	457.3

Question: When students in this class have been taught each of the following Advanced physics topics. Wave Phenomena and Atomic/Nuclear Physics:

Mass-energy equivalence in nuclear reactions and particle transformations

Location: TQP-22Cg (PTBP22CG)

Country	Sample	Valid N	1. Most ly taught before this year %	2. Most ly taught this year %	3. Not yet or just introd uced %	Not Admini stered %	Not Applic able %	Omitte d %	1. Most ly taught before this year Mean	2. Most ly taught this year Mean	3. Not yet or just introd uced Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	397	79.9	8.8	11.3	9.3	0.0	1.6	374.1	373.9	379.5	355.6	.	384.4
Italy	279	251	1.8	18.2	80.0	8.4	0.0	2.1	437.5	378.5	378.8	302.6	.	410.3
Lebanon	257	252	6.1	89.9	4.0	0.5	0.0	0.7	398.5	411.4	397.1	402.6	.	435.2
Norway	161	151	72.6	20.5	6.9	7.0	0.0	0.0	507.4	492.6	514.4	538.9	.	.
Portugal	149	147	9.6	32.7	57.7	1.0	0.0	0.4	461.5	474.9	462.4	435.5	.	578.7
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	63	6.8	82.3	10.9	1.0	0.0	4.0	509.9	530.6	556.6	495.8	.	517.5
Sweden	217	208	69.8	15.8	14.5	3.6	0.0	0.3	464.2	470.7	396.3	445.1	.	311.2
United States	217	153	12.3	26.6	61.1	28.1	0.0	5.2	475.6	453.5	431.8	425.9	.	427.1
International Avg (n=8)	2003	1622	32.4	36.8	30.8	7.4	0.0	1.8	453.6	448.3	439.6	425.2	.	437.8

Question: Do you assign physics homework to this class
Location: TQP-23A (PTBP23A)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	400	98.1	1.9	9.3	0.0	1.3	374.7	378.2	355.6	.	381.6
Italy	279	252	96.9	3.1	8.4	0.0	1.5	377.4	443.5	302.6	.	441.9
Lebanon	257	253	97.2	2.8	0.5	0.0	0.5	409.2	446.4	402.6	.	393.6
Norway	161	151	94.7	5.3	7.0	0.0	0.0	504.5	511.9	538.9	.	.
Portugal	149	146	81.6	18.4	1.0	0.0	0.7	465.2	471.6	435.5	.	538.5
Russian Federation	207	205	100.0	0.0	0.4	0.0	0.6	508.3	.	449.7	.	402.8
Slovenia	66	63	69.0	31.0	1.0	0.0	4.0	530.6	535.1	495.8	.	517.5
Sweden	217	208	71.4	28.6	3.6	0.0	1.1	454.1	457.9	445.1	.	441.6
United States	217	154	92.7	7.3	28.1	0.0	2.3	442.9	447.5	425.9	.	400.5
International Avg (n=9)	2003	1832	89.1	10.9	6.6	0.0	1.3	451.9	461.5	428.0	.	439.8

Question: How often do you assign the following kinds of physics homework to this class. Doing problem/question sets
Location: TQP-23Ba (PTBP23BA)

Country	Sample	Valid N	1.Always or almost always %	2.Some times %	3.Never or almost never %	Not Administered %	Not Applicable %	Omitted %	1.Always or almost always Mean	2.Some times Mean	3.Never or almost never Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	400	68.3	28.2	1.5	9.3	1.9	1.3	375.3	374.7	346.7	355.6	378.2	381.6
Italy	279	251	68.7	28.2	0.0	8.4	3.2	2.2	383.0	372.4	.	302.6	443.5	319.2
Lebanon	257	250	77.6	18.8	0.7	0.5	2.8	0.9	407.7	419.6	326.1	402.6	446.4	387.4
Norway	161	151	85.1	8.9	0.7	7.0	5.3	0.0	503.7	504.8	590.7	538.9	511.9	.
Portugal	149	145	38.5	41.6	1.4	1.0	18.5	1.5	475.2	456.5	439.4	435.5	471.6	508.5
Russian Federation	207	205	96.3	3.7	0.0	0.4	0.0	0.6	511.4	428.8	.	449.7	.	402.8
Slovenia	66	63	60.8	8.2	0.0	1.0	31.0	4.0	529.5	538.6	.	495.8	535.1	517.5
Sweden	217	208	43.7	26.8	0.9	3.6	28.6	1.1	469.0	430.1	446.1	445.1	457.9	441.6
United States	217	153	78.3	14.4	0.0	28.1	7.3	2.5	448.3	412.0	.	425.9	447.5	408.0
International Avg (n=9)	2003	1826	68.6	19.8	0.6	6.6	11.0	1.6	455.9	437.5	429.8	428.0	461.5	420.8

Question: How often do you assign the following kinds of physics homework to this class. Reading the textbook
Location: TQP-23Bb (PTBP23BB)

Country	Sample	Valid N	1.Always or almost always %	2.Some times %	3.Never or almost never %	Not Administered %	Not Applicable %	Omitted %	1.Always or almost always Mean	2.Some times Mean	3.Never or almost never Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	399	14.3	41.8	41.9	9.3	1.9	1.3	381.2	375.3	371.7	355.6	378.2	381.5
Italy	279	250	65.4	24.8	6.6	8.4	3.2	2.5	375.0	400.9	356.1	302.6	443.5	311.4
Lebanon	257	247	46.2	40.0	10.9	0.5	2.9	2.7	402.5	416.7	412.4	402.6	446.4	398.2
Norway	161	151	45.8	41.4	7.5	7.0	5.3	0.0	502.7	504.2	516.7	538.9	511.9	.
Portugal	149	144	12.4	32.9	36.0	1.0	18.7	2.6	484.2	470.2	453.7	435.5	471.6	491.8
Russian Federation	207	204	83.8	16.2	0.0	0.4	0.0	1.1	501.0	545.1	.	449.7	.	474.7
Slovenia	66	63	4.8	34.5	29.7	1.0	31.0	4.0	506.9	521.4	545.2	495.8	535.1	517.5
Sweden	217	208	25.3	36.2	9.9	3.6	28.6	1.1	461.5	457.2	423.6	445.1	457.9	441.6
United States	217	153	31.1	35.2	26.3	28.1	7.4	2.7	440.9	421.0	473.5	425.9	447.5	411.8
International Avg (n=9)	2003	1819	36.6	33.7	18.8	6.6	11.0	2.0	450.7	456.9	444.1	428.0	461.5	428.6

Question: How often do you assign the following kinds of physics homework to this class. Memorizing formulas and procedures
Location: TQP-23Bc (PTBP23BC)

Country	Sample	Valid N	1.Always or almost always %	2.Some times %	3.Never or almost never %	Not Administered %	Not Applicable %	Omitted %	1.Always or almost always Mean	2.Some times Mean	3.Never or almost never Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	400	55.8	36.2	6.0	9.3	1.9	1.3	373.8	374.7	382.2	355.6	378.2	381.6
Italy	279	249	22.3	44.8	29.7	8.4	3.2	3.0	370.1	381.1	385.7	302.6	443.5	333.8
Lebanon	257	250	63.4	25.5	8.3	0.5	2.9	1.4	403.6	415.3	432.9	402.6	446.4	405.5
Norway	161	151	10.6	39.2	44.8	7.0	5.3	0.0	499.8	499.3	510.1	538.9	511.9	.
Portugal	149	144	2.0	16.7	62.5	1.0	18.7	2.6	440.0	475.8	462.9	435.5	471.6	491.8
Russian Federation	207	203	66.5	30.7	2.8	0.4	0.0	1.3	502.6	519.5	525.9	449.7	.	453.0
Slovenia	66	63	15.1	18.7	35.2	1.0	31.0	4.0	528.1	533.3	530.2	495.8	535.1	517.5
Sweden	217	208	1.8	16.4	53.3	3.6	28.6	1.1	414.2	444.2	458.5	445.1	457.9	441.6
United States	217	153	9.4	32.2	51.1	28.1	7.4	2.7	350.9	472.9	440.4	425.9	447.5	411.8
International Avg (n=9)	2003	1821	27.4	28.9	32.6	6.6	11.0	1.9	431.5	457.4	458.7	428.0	461.5	429.6

Question: How often do you assign the following kinds of physics homework to this class. Gathering, analyzing, and reporting data
Location: TQP-23Bd (PTBP23BD)

Country	Sample	Valid N	1.Always or almost always %	2.Some times %	3.Never or almost never %	Not Administered %	Not Applicable %	Omitted %	1.Always or almost always Mean	2.Some times Mean	3.Never or almost never Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	399	14.4	62.5	21.1	9.3	2.0	1.7	368.7	377.9	367.4	355.6	378.2	400.4
Italy	279	249	7.8	54.1	35.0	8.4	3.2	3.0	305.6	382.0	393.3	302.6	443.5	333.8
Lebanon	257	251	42.0	44.7	10.5	0.5	2.8	0.8	402.0	415.1	413.9	402.6	446.4	389.2
Norway	161	151	1.1	36.4	57.2	7.0	5.3	0.0	479.5	502.8	506.0	538.9	511.9	.
Portugal	149	144	1.7	50.1	29.5	1.0	18.7	2.6	496.6	465.8	461.8	435.5	471.6	491.8
Russian Federation	207	203	27.8	66.4	5.8	0.4	0.0	1.4	522.2	506.6	469.6	449.7	.	439.9
Slovenia	66	63	2.6	47.9	18.5	1.0	31.0	4.0	533.5	536.1	515.8	495.8	535.1	517.5
Sweden	217	208	0.0	34.8	36.7	3.6	28.6	1.1	.	457.5	450.9	445.1	457.9	441.6
United States	217	154	10.3	64.3	18.1	28.1	7.3	2.3	463.3	453.0	395.3	425.9	447.5	400.5
International Avg (n=9)	2003	1822	12.0	51.2	25.8	6.6	11.0	1.9	446.4	455.2	441.6	428.0	461.5	426.8

Question: How often do you assign the following kinds of physics homework to this class. Finding one or more applications of the content covered
Location: TQP-23Be (PTBP23BE)

Country	Sample	Valid N	1.Always or almost always %	2.Some times %	3.Never or almost never %	Not Administered %	Not Applicable %	Omitted %	1.Always or almost always Mean	2.Some times Mean	3.Never or almost never Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	399	5.2	38.3	54.5	9.3	2.0	1.7	379.6	375.9	372.6	355.6	378.2	400.4
Italy	279	249	19.8	54.4	22.6	8.4	3.2	3.0	360.9	376.7	404.5	302.6	443.5	333.8
Lebanon	257	246	32.5	56.1	8.5	0.6	2.9	2.1	402.5	411.1	425.1	395.9	446.4	396.7
Norway	161	151	1.5	26.5	66.7	7.0	5.3	0.0	549.9	488.7	509.8	538.9	511.9	.
Portugal	149	145	10.6	51.5	19.4	1.0	18.5	1.5	458.0	471.0	453.0	435.5	471.6	508.5
Russian Federation	207	204	35.5	60.7	3.8	0.4	0.0	1.0	502.8	514.6	474.7	449.7	.	390.0
Slovenia	66	63	4.6	45.5	19.0	1.0	31.0	4.0	546.0	517.6	558.0	495.8	535.1	517.5
Sweden	217	208	5.4	21.2	44.9	3.6	28.6	1.1	505.0	445.9	451.9	445.1	457.9	441.6
United States	217	153	8.9	44.5	39.3	28.1	7.4	2.7	462.8	437.5	443.9	425.9	447.5	411.8
International Avg (n=9)	2003	1818	13.8	44.3	31.0	6.6	11.0	1.9	463.1	448.8	454.8	427.2	461.5	425.1

Question: How often do you assign the following kinds of physics homework to this class. Working on projects
Location: TQP-23Bf (PTBP23BF)

Country	Sample	Valid N	1.Always or almost always %	2.Some times %	3.Never or almost never %	Not Administered %	Not Applicable %	Omitted %	1.Always or almost always Mean	2.Some times Mean	3.Never or almost never Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	400	0.0	13.6	84.4	9.3	1.9	1.3	492.8	380.7	373.7	355.6	378.2	381.6
Italy	279	249	1.7	35.9	59.2	8.4	3.2	3.0	342.4	360.7	392.8	302.6	443.5	333.8
Lebanon	257	248	5.5	54.3	37.2	0.5	2.9	3.9	424.3	409.9	401.6	402.6	446.4	447.5
Norway	161	151	0.0	25.5	69.2	7.0	5.3	0.0	.	485.6	511.4	538.9	511.9	.
Portugal	149	146	1.3	41.6	38.7	1.0	18.4	0.7	491.4	456.5	473.7	435.5	471.6	538.5
Russian Federation	207	204	4.2	77.6	18.2	0.4	0.0	1.0	519.4	512.4	491.6	449.7	.	390.0
Slovenia	66	63	0.0	27.8	41.2	1.0	31.0	4.0	.	536.2	526.8	495.8	535.1	517.5
Sweden	217	208	0.0	38.2	33.3	3.6	28.6	1.1	.	463.5	443.4	445.1	457.9	441.6
United States	217	154	4.5	61.1	27.1	28.1	7.3	2.3	449.6	422.6	487.4	425.9	447.5	400.5
International Avg (n=9)	2003	1823	1.9	41.7	45.4	6.6	11.0	1.9	453.3	447.6	455.8	428.0	461.5	431.4

Question: How often do you do the following with the physics homework assignments for this class. Correct assignments and give feedback to students
Location: TQP-23Ca (PTBP23CA)

Country	Sample	Valid N	1.Always or almost always %	2.Some times %	3.Never or almost never %	Not Administered %	Not Applicable %	Omitted %	1.Always or almost always Mean	2.Some times Mean	3.Never or almost never Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	399	56.9	26.6	14.5	9.3	2.0	1.6	379.1	363.5	379.3	355.6	378.2	370.0
Italy	279	250	73.8	21.1	1.9	8.4	3.2	2.5	373.6	393.6	460.6	302.6	443.5	335.1
Lebanon	257	247	67.4	23.4	6.3	0.5	2.9	2.5	406.6	415.2	420.6	402.6	446.4	393.0
Norway	161	151	6.5	36.1	52.1	7.0	5.3	0.0	494.7	498.8	509.6	538.9	511.9	.
Portugal	149	145	56.8	16.3	8.4	1.0	18.5	1.5	461.1	474.4	473.2	435.5	471.6	508.5
Russian Federation	207	205	55.0	42.9	2.1	0.4	0.0	0.6	511.7	509.2	406.5	449.7	.	402.8
Slovenia	66	63	20.9	33.8	14.3	1.0	31.0	4.0	556.1	518.6	521.7	495.8	535.1	517.5
Sweden	217	206	12.0	34.6	24.6	3.6	28.8	1.9	455.5	444.7	464.1	445.1	457.9	479.2
United States	217	154	39.6	39.9	13.3	28.1	7.3	2.3	474.3	426.6	398.0	425.9	447.5	400.5
International Avg (n=9)	2003	1820	43.2	30.5	15.3	6.6	11.0	1.9	457.0	449.4	448.2	428.0	461.5	425.8

Question: How often do you do the following with the physics homework assignments for this class. Have students correct their own homework
Location: TQP-23Cb (PTBP23CB)

Country	Sample	Valid N	1.Always or almost always %	2.Some times %	3.Never or almost never %	Not Administered %	Not Applicable %	Omitted %	1.Always or almost always Mean	2.Some times Mean	3.Never or almost never Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	399	17.8	30.3	49.9	9.3	2.0	1.6	386.6	379.5	367.9	355.6	378.2	370.0
Italy	279	248	36.0	49.3	11.4	8.4	3.2	3.3	367.1	387.5	384.7	302.6	443.5	348.5
Lebanon	257	245	34.1	41.8	21.2	2.1	2.9	2.2	408.3	411.0	408.6	398.5	446.4	400.4
Norway	161	149	6.3	32.5	55.8	7.0	5.4	1.6	497.7	491.3	513.6	538.9	511.9	482.2
Portugal	149	145	8.4	45.8	27.2	1.0	18.5	1.5	454.0	465.5	467.6	435.5	471.6	508.5
Russian Federation	207	203	27.1	70.7	2.2	0.4	0.0	1.6	507.0	507.3	525.8	449.7	.	516.0
Slovenia	66	63	12.8	22.4	33.8	1.0	31.0	4.0	507.1	543.3	531.0	495.8	535.1	517.5
Sweden	217	204	19.8	31.1	20.2	3.6	28.9	2.2	461.2	455.6	443.3	445.1	457.9	461.1
United States	217	154	40.8	29.9	22.0	28.1	7.3	2.3	441.5	422.0	473.7	425.9	447.5	400.5
International Avg (n=9)	2003	1810	22.6	39.3	27.1	6.8	11.0	2.2	447.8	451.4	457.4	427.5	461.5	445.0

Question: How often do you do the following with the physics homework assignments for this class. Discuss the homework in class
Location: TQP-23Cc (PTBP23CC)

Country	Sample	Valid N	1.Always or almost always %	2.Some times %	3.Never or almost never %	Not Administered %	Not Applicable %	Omitted %	1.Always or almost always Mean	2.Some times Mean	3.Never or almost never Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	398	37.2	45.8	15.1	9.3	2.0	1.7	382.2	370.2	371.4	355.6	378.2	367.8
Italy	279	250	71.4	25.1	0.3	8.4	3.2	2.5	375.8	389.0	539.2	302.6	443.5	335.1
Lebanon	257	245	65.8	28.1	3.2	0.5	2.9	2.8	411.1	402.3	429.0	402.6	446.4	410.6
Norway	161	151	39.2	53.6	1.9	7.0	5.3	0.0	506.4	502.1	532.3	538.9	511.9	.
Portugal	149	145	37.5	42.3	1.7	1.0	18.5	1.5	458.0	472.2	441.1	435.5	471.6	508.5
Russian Federation	207	205	75.6	24.4	0.0	0.4	0.0	0.6	511.9	497.3	.	449.7	.	402.8
Slovenia	66	63	42.5	26.5	0.0	1.0	31.0	4.0	528.1	534.5	.	495.8	535.1	517.5
Sweden	217	207	21.0	47.8	2.5	3.6	28.7	1.6	476.9	442.7	459.2	445.1	457.9	476.3
United States	217	154	48.6	42.5	1.6	28.1	7.3	2.3	434.0	450.8	502.7	425.9	447.5	400.5
International Avg (n=9)	2003	1818	48.8	37.3	2.9	6.6	11.0	1.9	453.8	451.2	467.8	428.0	461.5	427.4

Question: How often do you do the following with the physics homework assignments for this class. Monitor whether or not the homework was completed
Location: TQP-23Cd (PTBP23CD)

Country	Sample	Valid N	1.Always or almost always %	2.Some times %	3.Never or almost never %	Not Administered %	Not Applicable %	Omitted %	1.Always or almost always Mean	2.Some times Mean	3.Never or almost never Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	399	28.9	53.4	15.7	9.3	2.0	1.6	379.8	372.3	374.5	355.6	378.2	370.0
Italy	279	248	22.7	52.4	21.7	8.4	3.2	3.3	345.2	384.2	405.1	302.6	443.5	343.7
Lebanon	257	247	58.3	34.2	4.7	0.5	2.9	2.3	414.1	400.2	401.2	402.6	446.4	430.8
Norway	161	151	10.9	43.2	40.6	7.0	5.3	0.0	501.1	498.8	511.4	538.9	511.9	.
Portugal	149	145	40.1	36.8	4.6	1.0	18.5	1.5	464.0	464.0	482.1	435.5	471.6	508.5
Russian Federation	207	205	77.3	22.0	0.7	0.4	0.0	0.6	507.6	513.4	435.1	449.7	.	402.8
Slovenia	66	63	38.0	21.1	9.9	1.0	31.0	4.0	521.4	537.5	551.3	495.8	535.1	517.5
Sweden	217	207	13.0	34.2	24.0	3.6	28.7	1.6	415.5	459.9	464.6	445.1	457.9	476.3
United States	217	154	75.0	15.1	2.6	28.1	7.3	2.3	453.2	384.8	482.0	425.9	447.5	400.5
International Avg (n=9)	2003	1819	40.5	34.7	13.8	6.6	11.0	1.9	444.7	446.1	456.4	428.0	461.5	431.3

Question: How often do you do the following with the physics homework assignments for this class. Use the homework to contribute towards students' grades or marks

Location: TQP-23Ce (PTBP23CE)

Country	Sample	Valid N	1.Always or almost always %	2.Some times %	3.Never or almost never %	Not Administered %	Not Applicable %	Omitted %	1.Always or almost always Mean	2.Some times Mean	3.Never or almost never Mean	Not Administered Mean	Not Applicable Mean	Omitted Mean
France	450	399	17.7	48.6	31.7	9.3	2.0	1.6	358.1	377.7	379.9	355.6	378.2	370.0
Italy	279	250	8.9	26.1	61.9	8.4	3.2	2.5	319.9	365.9	394.2	302.6	443.5	333.5
Lebanon	257	248	20.0	49.8	27.4	0.5	2.9	1.6	405.9	404.3	420.3	402.6	446.4	410.0
Norway	161	151	1.3	9.8	83.6	7.0	5.3	0.0	541.5	508.0	503.5	538.9	511.9	.
Portugal	149	146	27.8	36.3	17.5	1.0	18.4	0.7	447.5	473.8	475.5	435.5	471.6	538.5
Russian Federation	207	205	33.2	55.1	11.7	0.4	0.0	0.6	502.2	517.4	483.0	449.7	.	402.8
Slovenia	66	63	9.2	14.9	44.9	1.0	31.0	4.0	535.3	523.7	531.9	495.8	535.1	517.5
Sweden	217	207	0.6	18.9	51.8	3.6	28.7	1.6	390.8	400.9	473.3	445.1	457.9	476.3
United States	217	154	70.5	16.1	6.1	28.1	7.3	2.3	450.6	398.4	470.4	425.9	447.5	400.5
International Avg (n=9)	2003	1823	21.0	30.6	37.4	6.6	11.0	1.7	439.1	441.1	459.1	428.0	461.5	431.1

Question: In the past two years, have you participated in professional development in any of the following. Physics content
 Location: TQP-24a (PTBP24A)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	411	32.4	67.6	8.5	0.0	0.6	383.9	370.6	350.4	.	414.3
Italy	279	252	41.7	58.3	8.4	0.0	1.5	391.5	370.8	302.6	.	441.9
Lebanon	257	244	52.5	47.5	0.5	0.0	3.5	406.7	415.5	402.6	.	392.1
Norway	161	151	35.1	64.9	7.0	0.0	0.0	502.8	506.0	538.9	.	.
Portugal	149	147	58.9	41.1	1.0	0.0	0.4	469.8	461.5	435.5	.	578.7
Russian Federation	207	202	61.6	38.4	0.4	0.0	2.2	510.1	505.6	449.7	.	479.5
Slovenia	66	62	81.9	18.1	1.0	0.0	5.2	529.9	540.5	495.8	.	524.5
Sweden	217	209	41.9	58.1	3.6	0.0	0.0	468.4	445.4	445.1	.	.
United States	217	153	64.2	35.8	28.1	0.0	3.0	445.5	438.4	425.9	.	415.2
International Avg (n=9)	2003	1831	52.3	47.7	6.5	0.0	1.8	456.5	450.5	427.4	.	463.7

Question: In the past two years, have you participated in professional development in any of the following. Physics pedagogy/instruction
 Location: TQP-24b (PTBP24B)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	411	51.3	48.7	8.5	0.0	0.6	376.9	372.8	350.4	.	414.3
Italy	279	250	35.3	64.7	8.4	0.0	2.1	393.7	371.5	302.6	.	424.5
Lebanon	257	240	58.1	41.9	0.5	0.0	6.5	408.2	413.5	402.6	.	407.2
Norway	161	151	18.4	81.6	7.0	0.0	0.0	503.4	505.2	538.9	.	.
Portugal	149	147	47.5	52.5	1.0	0.0	0.4	464.0	468.6	435.5	.	578.7
Russian Federation	207	203	78.5	21.5	0.4	0.0	1.5	508.4	505.0	449.7	.	513.5
Slovenia	66	62	75.6	24.4	1.0	0.0	5.2	530.8	534.8	495.8	.	524.5
Sweden	217	209	27.9	72.1	3.6	0.0	0.0	457.5	454.1	445.1	.	.
United States	217	153	66.6	33.4	28.1	0.0	3.0	432.0	464.9	425.9	.	415.2
International Avg (n=9)	2003	1826	51.0	49.0	6.5	0.0	2.1	452.8	454.5	427.4	.	468.3

Question: In the past two years, have you participated in professional development in any of the following. Physics curriculum
Location: TQP-24c (PTBP24C)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	411	37.2	62.8	8.5	0.0	0.6	378.7	372.7	350.4	.	414.3
Italy	279	250	20.9	79.1	8.4	0.0	2.1	395.2	375.3	302.6	.	422.9
Lebanon	257	241	49.7	50.3	0.5	0.0	4.2	412.2	410.0	402.6	.	390.2
Norway	161	151	15.3	84.7	7.0	0.0	0.0	510.0	504.0	538.9	.	.
Portugal	149	147	35.2	64.8	1.0	0.0	0.4	458.4	470.7	435.5	.	578.7
Russian Federation	207	202	81.5	18.5	0.4	0.0	1.7	506.4	512.9	449.7	.	516.1
Slovenia	66	62	49.4	50.6	1.0	0.0	5.2	534.1	529.5	495.8	.	524.5
Sweden	217	209	15.2	84.8	3.6	0.0	0.0	449.6	456.0	445.1	.	.
United States	217	153	76.3	23.7	28.1	0.0	3.0	434.0	471.7	425.9	.	415.2
International Avg (n=9)	2003	1826	42.3	57.7	6.5	0.0	1.9	453.2	455.9	427.4	.	466.0

Question: In the past two years, have you participated in professional development in any of the following. Integrating information technology into physics
Location: TQP-24d (PTBP24D)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	411	20.3	79.7	8.5	0.0	0.6	370.3	376.1	350.4	.	414.3
Italy	279	249	20.6	79.4	8.4	0.0	2.9	372.4	382.4	302.6	.	383.0
Lebanon	257	242	69.3	30.7	0.5	0.0	4.2	413.4	405.7	402.6	.	390.6
Norway	161	151	19.5	80.5	7.0	0.0	0.0	512.8	502.9	538.9	.	.
Portugal	149	147	55.1	44.9	1.0	0.0	0.4	466.7	466.0	435.5	.	578.7
Russian Federation	207	203	76.2	23.8	0.4	0.0	1.5	508.1	506.4	449.7	.	513.5
Slovenia	66	62	61.5	38.5	1.0	0.0	5.2	522.6	546.5	495.8	.	524.5
Sweden	217	209	26.9	73.1	3.6	0.0	0.0	468.9	449.9	445.1	.	.
United States	217	153	38.1	61.9	28.1	0.0	3.0	467.1	428.2	425.9	.	415.2
International Avg (n=9)	2003	1827	43.1	56.9	6.5	0.0	2.0	455.8	451.6	427.4	.	460.0

Question: In the past two years, have you participated in professional development in any of the following. Improving students' critical thinking or inquiry skills

Location: TQP-24e (PTBP24E)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	411	21.0	79.0	8.5	0.0	0.6	372.8	375.5	350.4	.	414.3
Italy	279	252	9.1	90.9	8.4	0.0	1.5	380.9	379.3	302.6	.	441.9
Lebanon	257	240	50.4	49.6	0.5	0.0	4.5	414.3	407.7	402.6	.	392.5
Norway	161	150	4.8	95.2	7.0	0.0	1.0	485.7	506.2	538.9	.	479.5
Portugal	149	147	16.4	83.6	1.0	0.0	0.4	460.1	467.6	435.5	.	578.7
Russian Federation	207	203	58.0	42.0	0.4	0.0	1.5	503.6	513.3	449.7	.	513.5
Slovenia	66	62	48.2	51.8	1.0	0.0	5.2	535.6	528.2	495.8	.	524.5
Sweden	217	209	8.8	91.2	3.6	0.0	0.0	414.8	458.9	445.1	.	.
United States	217	153	52.8	47.2	28.1	0.0	3.0	441.0	445.2	425.9	.	415.2
International Avg (n=9)	2003	1827	30.0	70.0	6.5	0.0	2.0	445.4	453.5	427.4	.	470.0

Question: In the past two years, have you participated in professional development in any of the following. Physics assessment
 Location: TQP-24f (PTBP24F)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	409	31.8	68.2	8.5	0.0	1.1	367.2	378.2	350.4	.	411.7
Italy	279	251	7.6	92.4	8.4	0.0	1.7	350.7	381.7	302.6	.	436.3
Lebanon	257	240	60.1	39.9	0.5	0.0	4.7	412.8	407.8	402.6	.	397.6
Norway	161	151	16.7	83.3	7.0	0.0	0.0	501.5	505.6	538.9	.	.
Portugal	149	147	17.4	82.6	1.0	0.0	0.4	465.3	466.6	435.5	.	578.7
Russian Federation	207	203	53.2	46.8	0.4	0.0	1.5	490.6	527.0	449.7	.	513.5
Slovenia	66	62	39.7	60.3	1.0	0.0	5.2	512.2	544.7	495.8	.	524.5
Sweden	217	209	26.3	73.7	3.6	0.0	0.0	455.2	454.9	445.1	.	.
United States	217	153	43.2	56.8	28.1	0.0	3.0	442.2	443.6	425.9	.	415.2
International Avg (n=9)	2003	1825	32.9	67.1	6.5	0.0	2.0	444.2	456.7	427.4	.	468.2

Question: In the past two years, have you participated in professional development in any of the following. Addressing individual students' needs
 Location: TQP-24g (PTBP24G)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	411	9.4	90.6	8.5	0.0	0.6	368.3	375.6	350.4	.	414.3
Italy	279	250	12.6	87.4	8.4	0.0	2.0	366.6	380.9	302.6	.	441.6
Lebanon	257	239	45.7	54.3	0.5	0.0	6.0	401.9	417.1	402.6	.	410.7
Norway	161	151	6.0	94.0	7.0	0.0	0.0	489.8	505.8	538.9	.	.
Portugal	149	146	12.7	87.3	1.0	0.0	1.1	450.7	468.4	435.5	.	534.6
Russian Federation	207	203	49.9	50.1	0.4	0.0	1.5	514.1	501.3	449.7	.	513.5
Slovenia	66	62	23.7	76.3	1.0	0.0	5.2	527.4	533.1	495.8	.	524.5
Sweden	217	209	16.7	83.3	3.6	0.0	0.0	440.6	457.9	445.1	.	.
United States	217	153	37.0	63.0	28.1	0.0	3.0	443.7	442.5	425.9	.	415.2
International Avg (n=9)	2003	1824	23.7	76.3	6.5	0.0	2.2	444.8	453.6	427.4	.	464.9

Question: In the past two years, how many hours in total have you spent in formal <in-service/professional development> (e.g., workshops, seminars, etc.) for physics

Location: TQP-25 (PTBP25)

Country	Sample	Valid N	1.None %	2.Less than 6 hours %	3.6-15 hours %	4.16-3 5 hours %	5.More than 35 hours %	Not Admini stered %	Not Applic able %	Omitte d %
France	450	411	15.6	23.4	33.3	19.4	8.3	8.5	0.0	0.6
Italy	279	245	24.8	15.8	23.4	21.0	15.0	8.4	0.0	3.7
Lebanon	257	224	18.7	12.3	32.1	20.6	16.3	0.5	0.0	10.1
Norway	161	151	32.6	27.2	20.4	13.8	6.1	7.0	0.0	0.0
Portugal	149	142	14.1	5.5	14.0	24.0	42.4	1.5	0.0	3.4
Russian Federation	207	197	0.6	2.8	9.5	14.5	72.7	0.4	0.0	3.8
Slovenia	66	62	1.4	5.5	31.8	31.6	29.7	1.0	0.0	5.2
Sweden	217	209	25.7	24.5	27.5	16.0	6.3	3.6	0.0	0.0
United States	217	154	10.8	18.9	17.5	24.7	28.2	28.1	0.0	2.3
International Avg (n=9)	2003	1795	16.0	15.1	23.3	20.6	25.0	6.6	0.0	3.2

Question: In the past two years, how many hours in total have you spent in formal <in-service/professional development> (e.g., workshops, seminars, etc.) for physics

Location: TQP-25 (PTBP25)

Country	Sample	Valid N	1.None Mean	2.Less than 6 hours Mean	3.6-15 hours Mean	4.16-3 5 hours Mean	5.More than 35 hours Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	411	385.3	366.6	369.0	383.3	382.8	350.4	.	414.3
Italy	279	245	370.0	340.4	402.5	381.2	394.7	302.6	.	415.1
Lebanon	257	224	401.9	404.6	415.4	410.9	411.6	402.6	.	412.1
Norway	161	151	506.6	517.9	503.8	493.5	466.5	538.9	.	.
Portugal	149	142	464.1	474.1	485.9	467.3	459.3	453.3	.	477.3
Russian Federation	207	197	361.9	495.0	487.4	490.3	517.0	449.7	.	482.6
Slovenia	66	62	564.0	513.6	544.0	527.0	525.6	495.8	.	524.5
Sweden	217	209	439.9	445.7	451.3	491.4	477.0	445.1	.	.
United States	217	154	443.0	498.5	395.7	422.1	454.3	425.9	.	400.5
International Avg (n=9)	2003	1795	437.4	450.7	450.6	451.9	454.3	429.4	.	446.6

Question: By the end of this school year, how many years will you have taught physics at the advanced level
 Location: TQP-26 (PTBP26)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	407	8.3	0.0	1.6	11.1	3.0	1.0	1.0	3.0	5.0	10.0	15.0	22.0	25.0	37.0
Italy	279	245	8.4	0.0	3.4	13.7	10.0	0.0	1.0	3.0	6.0	14.0	20.0	25.0	29.0	35.0
Lebanon	257	220	0.5	0.0	10.4	20.4	10.0	0.0	3.0	6.0	10.0	20.0	28.0	37.0	41.0	49.0
Norway	161	148	7.0	0.0	1.8	13.6	8.0	1.0	2.0	3.0	5.0	8.0	21.0	34.0	35.0	44.0
Portugal	149	146	1.0	0.0	1.1	9.3	4.0	1.0	1.0	2.0	3.0	8.0	15.0	20.0	20.0	30.0
Russian Federation	207	201	0.4	0.0	2.6	10.6	2.0	1.0	2.0	2.0	4.0	8.0	15.0	23.0	25.0	48.0
Slovenia	66	61	1.0	0.0	9.1	14.9	20.0	2.0	3.0	4.0	9.0	16.0	20.0	21.0	28.0	38.0
Sweden	217	205	3.6	0.0	1.4	12.5	4.0	1.0	2.0	3.0	5.0	10.0	20.0	24.0	27.0	35.0
United States	217	153	28.0	0.0	2.6	8.2	1.0	0.0	1.0	1.0	2.0	6.0	12.0	19.0	22.0	34.0
International Avg (n=9)	2003	1786	6.5	0.0	3.8	12.7	6.9	0.8	1.8	3.0	5.4	11.1	18.4	25.0	28.0	38.9

Question: Are you a member of <professional organization for physics teachers>

Location: TQP-27A (PTBP27A)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	14.4	85.6	8.5	0.0	0.6	388.2	372.6	350.4	.	414.9
Italy	279	252	9.9	90.1	8.4	0.0	1.5	384.4	378.9	302.6	.	441.9
Lebanon	257	251	23.3	76.7	0.5	0.0	1.4	408.5	410.8	402.6	.	404.2
Norway	161	151	56.5	43.5	7.0	0.0	0.0	509.7	498.6	538.9	.	.
Portugal	149	147	20.6	79.4	1.0	0.0	0.4	454.1	469.6	435.5	.	578.7
Russian Federation	207	205	45.3	54.7	0.4	0.0	0.6	512.1	505.2	449.7	.	402.8
Slovenia	66	63	44.5	55.5	1.0	0.0	4.0	534.5	530.0	495.8	.	517.5
Sweden	217	209	19.0	81.0	3.6	0.0	0.0	464.0	452.9	445.1	.	.
United States	217	154	36.8	63.2	28.1	0.0	2.3	453.3	437.3	425.9	.	400.5
International Avg (n=9)	2003	1842	30.0	70.0	6.5	0.0	1.2	456.6	450.7	427.4	.	451.5

Question: In the past two years, have you regularly participated in activities sponsored by <professional organization for physics teachers>
 Location: TQP-27B (PTBP27B)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	404	8.0	92.0	8.5	0.0	2.2	378.8	374.9	350.4	.	372.8
Italy	279	251	14.5	85.5	8.4	0.0	1.8	391.1	377.5	302.6	.	428.8
Lebanon	257	236	30.3	69.7	0.5	0.0	7.8	413.4	407.0	402.6	.	425.2
Norway	161	151	15.0	85.0	7.0	0.0	0.0	515.7	503.0	538.9	.	.
Portugal	149	147	31.3	68.7	1.0	0.0	0.4	470.4	464.6	435.5	.	578.7
Russian Federation	207	205	43.2	56.8	0.4	0.0	0.6	515.6	502.9	449.7	.	402.8
Slovenia	66	63	42.9	57.1	1.0	0.0	4.0	542.7	523.9	495.8	.	517.5
Sweden	217	209	11.1	88.9	3.6	0.0	0.0	481.7	451.7	445.1	.	.
United States	217	154	10.4	89.6	28.1	0.0	2.3	453.8	442.0	425.9	.	400.5
International Avg (n=9)	2003	1820	23.0	77.0	6.5	0.0	2.1	462.6	449.7	427.4	.	446.6

Question: In the past two years, have you taken part in any of the following activities in physics. I attended a workshop or conference
Location: TQP-28a (PTBP28A)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	55.7	44.3	8.5	0.0	0.8	383.2	364.6	350.4	.	402.3
Italy	279	252	66.5	33.5	8.4	0.0	1.5	398.5	341.6	302.6	.	441.9
Lebanon	257	251	58.3	41.7	0.5	0.0	0.9	413.6	405.3	402.6	.	417.0
Norway	161	151	51.1	48.9	7.0	0.0	0.0	513.5	495.9	538.9	.	.
Portugal	149	146	69.2	30.8	1.0	0.0	1.0	468.9	459.7	435.5	.	546.0
Russian Federation	207	205	88.8	11.2	0.4	0.0	0.6	509.4	500.2	449.7	.	402.8
Slovenia	66	63	83.6	16.4	1.0	0.0	4.0	534.3	520.4	495.8	.	517.5
Sweden	217	209	51.9	48.1	3.6	0.0	0.0	461.4	448.2	445.1	.	.
United States	217	154	65.0	35.0	28.1	0.0	2.3	431.4	465.1	425.9	.	400.5
International Avg (n=9)	2003	1841	65.6	34.4	6.5	0.0	1.2	457.1	444.5	427.4	.	446.9

Question: In the past two years, have you taken part in any of the following activities in physics. I gave a presentation at a workshop or conference
Location: TQP-28b (PTBP28B)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini stered %	Not Applic able %	Omitte d %	1.Yes Mean	2.No Mean	Not Admini stered Mean	Not Applic able Mean	Omitte d Mean
France	450	410	8.2	91.8	8.5	0.0	0.8	385.7	373.9	350.4	.	402.3
Italy	279	252	6.4	93.6	8.4	0.0	1.5	376.6	379.6	302.6	.	441.9
Lebanon	257	246	30.8	69.2	0.5	0.0	3.0	408.8	411.1	402.6	.	405.1
Norway	161	151	4.0	96.0	7.0	0.0	0.0	506.3	504.8	538.9	.	.
Portugal	149	147	9.9	90.1	1.0	0.0	0.4	445.1	468.7	435.5	.	578.7
Russian Federation	207	205	64.7	35.3	0.4	0.0	0.6	505.2	514.0	449.7	.	402.8
Slovenia	66	63	40.9	59.1	1.0	0.0	4.0	548.7	520.4	495.8	.	517.5
Sweden	217	209	5.8	94.2	3.6	0.0	0.0	474.1	453.9	445.1	.	.
United States	217	154	8.9	91.1	28.1	0.0	2.3	469.0	440.7	425.9	.	400.5
International Avg (n=9)	2003	1837	19.9	80.1	6.5	0.0	1.4	457.7	451.9	427.4	.	449.8

Question: In the past two years, have you taken part in any of the following activities in physics. I took part in an innovative project for curriculum and instruction

Location: TQP-28c (PTBP28C)

Country	Sample	Valid N	1.Yes %	2.No %	Not Admini- stered %	Not Applic- able %	Omitte- d %	1.Yes Mean	2.No Mean	Not Admini- stered Mean	Not Applic- able Mean	Omitte- d Mean
France	450	410	18.4	81.6	8.5	0.0	0.8	383.7	372.9	350.4	.	402.3
Italy	279	251	17.5	82.5	8.4	0.0	1.8	399.8	374.7	302.6	.	448.5
Lebanon	257	250	27.7	72.3	0.5	0.0	1.2	420.8	405.8	402.6	.	430.3
Norway	161	151	9.4	90.6	7.0	0.0	0.0	500.7	505.3	538.9	.	.
Portugal	149	147	14.9	85.1	1.0	0.0	0.4	455.1	468.4	435.5	.	578.7
Russian Federation	207	205	37.5	62.5	0.4	0.0	0.6	508.2	508.4	449.7	.	402.8
Slovenia	66	63	44.9	55.1	1.0	0.0	4.0	522.5	539.7	495.8	.	517.5
Sweden	217	208	16.2	83.8	3.6	0.0	0.4	468.6	452.6	445.1	.	399.5
United States	217	154	24.6	75.4	28.1	0.0	2.3	435.3	445.8	425.9	.	400.5
International Avg (n=9)	2003	1839	23.5	76.5	6.5	0.0	1.3	455.0	452.6	427.4	.	447.5

Question: Teachers Majored in Physics and Physics Education
Location: Derived (PTDG05)

Country	Sample	Valid N	1. Physic s and physic s ed %	2. Physic s but not physic s ed %	3. Physic s ed but not physic s %	4. All other majors %	5. No tertia ry ed %	Missin g %	Not admini stered %	Not applic able %
France	450	414	24.9	71.0	0.0	4.0	0.0	8.7	0.0	0.0
Italy	279	255	38.2	37.0	0.6	24.2	0.0	9.3	0.0	0.0
Lebanon	257	231	50.8	47.7	1.4	0.0	0.0	11.3	0.0	0.0
Norway	161	151	9.9	87.5	0.6	1.9	0.0	7.0	0.0	0.0
Portugal	149	146	42.4	55.4	0.5	1.7	0.0	2.0	0.0	0.0
Russian Federation	207	205	63.6	34.5	0.9	1.0	0.0	0.8	0.0	0.0
Slovenia	66	65	41.3	43.7	13.9	1.0	0.0	1.0	0.0	0.0
Sweden	217	200	71.0	21.2	5.6	2.2	0.0	7.1	0.0	0.0
United States	217	157	23.6	30.5	6.5	39.5	0.0	29.1	0.0	0.0
International Avg (n=9)	2003	1824	40.6	47.6	3.3	8.4	0.0	8.5	0.0	0.0

Question: Teachers Majored in Physics and Physics Education
Location: Derived (PTDG05)

Country	Sample	Valid N	1. Physics and physics ed Mean	2. Physics but not physics ed Mean	3. Physics but not physics ed Mean	4. All other majors Mean	5. No tertiary ed Mean	Missing Mean	Not administered Mean	Not applicable Mean
France	450	414	370.7	376.2	.	385.4	.	350.8	.	.
Italy	279	255	368.9	392.8	441.4	378.8	.	308.4	.	.
Lebanon	257	231	406.4	418.5	356.7	.	.	399.7	.	.
Norway	161	151	513.3	505.5	335.4	487.9	.	538.9	.	.
Portugal	149	146	470.2	465.5	418.0	453.7	.	445.2	.	.
Russian Federation	207	205	512.9	497.7	595.1	346.6	.	587.0	.	.
Slovenia	66	65	531.3	526.4	540.8	618.9	.	495.8	.	.
Sweden	217	200	462.9	445.8	456.3	418.3	.	411.7	.	.
United States	217	157	444.2	429.0	457.3	447.7	.	426.5	.	.
International Avg (n=9)	2003	1824	453.4	450.8	450.1	442.2	.	440.5	.	.

Question: Percentage of Students Taught Mechanics and Thermodynamics Topics
 Location: Derived (PTDP22ME)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	397	0.0	0.0	10.8	80.0	77.8	0.0	55.6	66.7	77.8	77.8	88.9	100.0	100.0	100.0
Italy	279	251	0.0	0.0	10.3	98.6	100.0	0.0	88.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Lebanon	257	252	0.0	0.0	1.0	77.2	66.7	50.0	55.6	62.5	66.7	66.7	88.9	100.0	100.0	100.0
Norway	161	151	0.0	0.0	7.0	89.8	100.0	33.3	77.8	77.8	77.8	88.9	100.0	100.0	100.0	100.0
Portugal	149	147	0.0	0.0	1.4	91.5	88.9	77.8	77.8	77.8	88.9	88.9	100.0	100.0	100.0	100.0
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	0.0	0.0	3.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sweden	217	208	0.0	0.0	4.0	96.8	100.0	0.0	88.9	88.9	100.0	100.0	100.0	100.0	100.0	100.0
United States	217	153	0.0	0.0	33.4	83.6	66.7	33.3	66.7	66.7	66.7	88.9	100.0	100.0	100.0	100.0
International Avg (n=8)	2003	1623	0.0	0.0	8.9	89.7	87.5	36.8	76.4	80.0	84.7	88.9	97.2	100.0	100.0	100.0

Question: Percentage of Students Taught Electricity and Magnetism Topics
 Location: Derived (PTDP22EL)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	396	0.0	0.0	10.9	52.0	50.0	0.0	20.0	33.3	50.0	50.0	66.7	83.3	83.3	100.0
Italy	279	252	0.0	0.0	10.0	96.9	100.0	50.0	66.7	83.3	100.0	100.0	100.0	100.0	100.0	100.0
Lebanon	257	252	0.0	0.0	1.2	93.9	100.0	16.7	66.7	80.0	83.3	100.0	100.0	100.0	100.0	100.0
Norway	161	151	0.0	0.0	7.0	94.2	100.0	16.7	66.7	66.7	100.0	100.0	100.0	100.0	100.0	100.0
Portugal	149	147	0.0	0.0	1.4	79.8	100.0	0.0	33.3	50.0	66.7	100.0	100.0	100.0	100.0	100.0
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	64	0.0	0.0	3.0	98.0	100.0	50.0	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sweden	217	208	0.0	0.0	4.0	93.0	100.0	0.0	50.0	66.7	100.0	100.0	100.0	100.0	100.0	100.0
United States	217	153	0.0	0.0	33.4	59.5	100.0	0.0	0.0	0.0	33.3	50.0	100.0	100.0	100.0	100.0
International Avg (n=8)	2003	1623	0.0	0.0	8.9	83.4	93.8	16.7	48.3	60.0	79.2	87.5	95.8	97.9	97.9	100.0

Question: Percentage of Students Taught Wave Phenomena and Atomic/Nuclear Topics
Location: Derived (PTDP22AN)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	397	0.0	0.0	10.9	94.4	100.0	0.0	71.4	85.7	100.0	100.0	100.0	100.0	100.0	100.0
Italy	279	251	0.0	0.0	10.4	55.0	57.1	0.0	0.0	14.3	42.9	57.1	71.4	85.7	100.0	100.0
Lebanon	257	250	0.0	0.0	1.6	91.9	100.0	28.6	83.3	85.7	85.7	100.0	100.0	100.0	100.0	100.0
Norway	161	151	0.0	0.0	7.0	92.3	100.0	71.4	71.4	85.7	85.7	100.0	100.0	100.0	100.0	100.0
Portugal	149	147	0.0	0.0	1.4	85.8	100.0	0.0	57.1	71.4	85.7	85.7	100.0	100.0	100.0	100.0
Russian Federation	207	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Slovenia	66	63	0.0	0.0	5.0	94.6	100.0	28.6	71.4	85.7	100.0	100.0	100.0	100.0	100.0	100.0
Sweden	217	209	0.0	0.0	3.6	76.5	100.0	0.0	14.3	28.6	57.1	85.7	100.0	100.0	100.0	100.0
United States	217	153	0.0	0.0	33.4	56.3	100.0	0.0	0.0	14.3	14.3	57.1	100.0	100.0	100.0	100.0
International Avg (n=8)	2003	1621	0.0	0.0	9.2	80.9	94.6	16.1	46.1	58.9	71.4	85.7	96.4	98.2	100.0	100.0

Question: School Supports Advanced Mathematics and Physics Education - Teachers' Reports (Scale)
Location: Derived (PTBGSMF)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	411	8.5	0.0	0.8	8.9	8.6	5.7	6.7	7.4	8.0	9.1	9.6	10.6	11.1	14.9
Italy	279	256	8.4	0.0	0.4	9.0	8.6	4.0	5.7	6.7	8.0	9.1	10.1	11.6	11.6	13.2
Lebanon	257	252	0.5	0.0	0.7	11.6	14.9	4.0	8.6	9.1	10.6	11.1	13.2	14.9	14.9	14.9
Norway	161	151	7.0	0.0	0.0	10.5	10.1	4.0	8.6	9.1	10.1	10.6	11.1	12.3	12.3	14.9
Portugal	149	148	1.0	0.0	0.0	9.9	10.1	4.0	6.7	8.0	8.6	10.1	11.1	11.6	12.3	14.9
Russian Federation	207	205	0.4	0.0	0.4	11.8	11.1	4.0	9.1	9.6	10.6	11.6	13.2	14.9	14.9	14.9
Slovenia	66	64	1.0	0.0	1.2	8.7	8.6	5.7	7.4	7.4	7.4	8.6	9.6	10.6	11.1	12.3
Sweden	217	209	3.6	0.0	0.0	8.9	8.6	4.0	6.7	7.4	8.0	8.9	10.1	10.6	11.1	14.9
United States	217	158	28.0	0.0	0.4	10.6	10.6	4.0	8.0	8.0	9.1	10.6	12.3	13.2	14.9	14.9
International Avg (n=9)	2003	1854	6.5	0.0	0.4	10.0	10.1	4.4	7.5	8.1	8.9	10.0	11.1	12.2	12.7	14.4

Question: School Supports Advanced Mathematics and Physics Education - Teachers' Reports (Index)
Location: Derived (PTDGSMF)

Country	Sample	Valid N	1. Strong ly suppor ts %	2. Suppor ts %	3. Somewh at suppor ts %	Missin g %	Not admini stered %	Not applic able %	1. Strong ly suppor ts Mean	2. Suppor ts Mean	3. Somewh at suppor ts Mean	Missin g Mean	Not admini stered Mean	Not applic able Mean
France	450	411	3.3	78.9	17.7	0.8	8.5	0.0	399.7	375.7	366.7	405.2	350.4	.
Italy	279	256	10.2	66.5	23.2	0.4	8.4	0.0	386.4	377.0	387.9	365.8	302.6	.
Lebanon	257	252	48.2	50.1	1.7	0.7	0.5	0.0	411.7	410.1	388.2	368.1	402.6	.
Norway	161	151	23.1	74.6	2.2	0.0	7.0	0.0	511.8	503.1	493.9	.	538.9	.
Portugal	149	148	18.3	75.0	6.6	0.0	1.0	0.0	482.8	463.6	460.4	.	435.5	.
Russian Federation	207	205	57.5	41.7	0.8	0.4	0.4	0.0	508.4	510.5	332.4	488.4	449.7	.
Slovenia	66	64	2.0	69.5	28.5	1.2	1.0	0.0	614.8	538.2	508.0	547.3	495.8	.
Sweden	217	209	2.6	78.8	18.6	0.0	3.6	0.0	480.2	455.8	448.2	.	445.1	.
United States	217	158	37.3	58.4	4.4	0.4	28.0	0.0	456.0	434.0	423.5	516.1	425.1	.
International Avg (n=9)	2003	1854	22.5	66.0	11.5	0.4	6.5	0.0	472.4	452.0	423.2	448.5	427.3	.

Question: Safe and Orderly Schools - Teachers' Reports (Scale)
 Location: Derived (PTBGSOS)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	412	8.5	0.0	0.6	8.9	8.0	5.0	6.3	7.1	8.0	8.9	9.9	11.0	13.0	13.0
Italy	279	256	8.4	0.0	0.4	9.6	10.4	4.7	6.7	6.7	8.0	9.4	11.0	13.0	13.0	13.0
Lebanon	257	249	0.5	0.0	1.9	10.7	13.0	5.9	7.5	8.0	9.4	10.4	13.0	13.0	13.0	13.0
Norway	161	151	7.0	0.0	0.0	10.9	13.0	3.5	8.4	8.9	9.9	11.0	13.0	13.0	13.0	13.0
Portugal	149	148	1.0	0.0	0.0	9.9	13.0	4.7	6.7	7.5	8.9	9.4	11.0	13.0	13.0	13.0
Russian Federation	207	205	0.4	0.0	0.4	10.9	13.0	6.7	8.0	8.9	9.9	11.0	11.7	13.0	13.0	13.0
Slovenia	66	65	1.0	0.0	0.0	9.0	8.0	3.5	6.3	6.4	8.0	8.9	9.9	11.7	13.0	13.0
Sweden	217	209	3.6	0.0	0.0	10.1	13.0	4.7	7.5	8.0	8.9	9.9	11.0	13.0	13.0	13.0
United States	217	158	28.0	0.0	0.4	10.0	13.0	4.7	5.9	6.3	8.0	9.9	13.0	13.0	13.0	13.0
International Avg (n=9)	2003	1853	6.5	0.0	0.4	10.0	11.6	4.8	7.1	7.5	8.8	9.9	11.5	12.7	13.0	13.0

Question: Safe and Orderly Schools - Teachers' Reports (Index)
 Location: Derived (PTDGSOS)

Country	Sample	Valid N	1. Very safe and orderl y %	2. Safe and orderl y %	3. Less than safe and orderl y %	Missin g %	Not admini stered %	Not applic able %	1. Very safe and orderl y Mean	2. Safe and orderl y Mean	3. Less than safe and orderl y Mean	Missin g Mean	Not admini stered Mean	Not applic able Mean
France	450	412	26.9	66.7	6.4	0.6	8.5	0.0	383.9	373.8	348.4	419.1	350.4	.
Italy	279	256	50.0	45.2	4.9	0.4	8.4	0.0	383.9	379.2	357.5	365.8	302.6	.
Lebanon	257	249	67.5	31.7	0.8	1.9	0.5	0.0	413.3	404.6	319.6	431.3	402.6	.
Norway	161	151	76.6	21.5	1.9	0.0	7.0	0.0	509.1	497.1	425.1	.	538.9	.
Portugal	149	148	49.9	48.2	1.9	0.0	1.0	0.0	474.9	458.1	480.6	.	435.5	.
Russian Federation	207	205	82.9	17.1	0.0	0.4	0.4	0.0	511.7	489.3	.	488.4	449.7	.
Slovenia	66	65	35.2	56.1	8.7	0.0	1.0	0.0	558.4	515.5	524.8	.	495.8	.
Sweden	217	209	55.4	41.7	2.9	0.0	3.6	0.0	460.5	454.3	359.2	.	445.1	.
United States	217	158	52.4	33.5	14.1	0.4	28.0	0.0	458.4	458.0	340.8	516.1	425.1	.
International Avg (n=9)	2003	1853	55.2	40.2	4.6	0.4	6.5	0.0	461.6	447.8	394.5	444.1	427.3	.

Question: Teachers' Job Satisfaction (Scale)
Location: Derived (PTBGTJS)

Country	Sample	Valid N	Not Adm. %	Not App. %	Omitt ed %	Mean	Mode	Min	P5	P10	Q1	Median	Q3	P90	P95	Max
France	450	409	8.5	0.0	1.2	9.2	12.9	5.1	5.1	6.9	7.8	9.0	10.7	12.9	12.9	12.9
Italy	279	256	8.4	0.0	0.3	9.4	8.2	5.1	6.3	6.9	8.2	9.0	11.2	12.9	12.9	12.9
Lebanon	257	253	0.5	0.0	0.9	11.2	12.9	6.3	8.2	8.6	9.9	11.8	12.9	12.9	12.9	12.9
Norway	161	151	7.0	0.0	0.0	10.5	12.9	5.1	7.8	8.2	9.0	10.7	11.8	12.9	12.9	12.9
Portugal	149	148	1.0	0.0	0.0	9.6	9.0	5.1	6.9	7.8	8.6	9.5	10.7	11.8	12.9	12.9
Russian Federation	207	206	0.4	0.0	0.0	10.3	12.9	5.1	7.5	8.2	9.0	10.3	11.8	12.9	12.9	12.9
Slovenia	66	64	1.0	0.0	2.0	9.6	9.0	5.1	5.1	7.4	8.6	9.5	10.7	12.9	12.9	12.9
Sweden	217	208	3.6	0.0	1.1	9.8	9.5	5.1	6.9	7.8	8.6	9.5	11.2	12.9	12.9	12.9
United States	217	158	28.0	0.0	0.4	10.3	12.9	5.1	6.3	7.4	9.0	10.7	12.9	12.9	12.9	12.9
International Avg (n=9)	2003	1853	6.5	0.0	0.7	10.0	11.1	5.3	6.7	7.7	8.8	10.0	11.5	12.8	12.9	12.9

Question: Teachers' Job Satisfaction (Index)
Location: Derived (PTDGTJS)

Country	Sample	Valid N	1. Very Satisf ied %	2. Satisf ied %	3. Less than satisf ied %	Missin g %	Not admini stered %	Not applic able %	1. Very Satisf ied Mean	2. Satisf ied Mean	3. Less than satisf ied Mean	Missin g Mean	Not admini stered Mean	Not applic able Mean
France	450	409	25.3	52.9	21.8	1.2	8.5	0.0	377.0	373.2	375.4	413.5	350.4	.
Italy	279	256	30.7	52.5	16.7	0.3	8.4	0.0	355.0	392.2	389.8	408.3	302.6	.
Lebanon	257	253	67.0	29.8	3.2	0.9	0.5	0.0	411.5	409.3	373.4	465.2	402.6	.
Norway	161	151	51.0	45.3	3.7	0.0	7.0	0.0	504.3	505.3	508.5	.	538.9	.
Portugal	149	148	28.6	62.4	9.1	0.0	1.0	0.0	476.5	462.0	470.1	.	435.5	.
Russian Federation	207	206	44.2	50.9	4.9	0.0	0.4	0.0	510.8	504.4	514.9	.	449.7	.
Slovenia	66	64	29.0	58.3	12.6	2.0	1.0	0.0	556.8	530.6	472.4	556.4	495.8	.
Sweden	217	208	34.3	55.8	9.9	1.1	3.6	0.0	461.7	448.8	461.4	500.0	445.1	.
United States	217	158	52.1	37.2	10.8	0.4	28.0	0.0	458.1	432.4	394.1	516.1	425.1	.
International Avg (n=9)	2003	1853	40.2	49.5	10.3	0.7	6.5	0.0	456.9	450.9	440.0	476.6	427.3	.