

SACMEQ III Imputation Rules.

1. Basic Rules for Pupil Questionnaire

Type P1: Use the Mean

If missing is less than 15% at class level, use the class mean,

If missing is greater than or equal to 15% at class level and less than 15% at school level, use the school mean,

If missing is greater than or equal to 15% at school level and less than 15% at district level, use the district mean,

If missing is greater than or equal to 15% at district level and less than 15% at region level, use the region mean,

If missing is greater than or equal to 15% at region level and less than 15% at national level, use the national mean,

If missing is greater than or equal to 15% at national level there is no imputation.

PQ#03, PQ#04, PQ#09, PQ#10

Type P2: Use the Mode

If missing is less than 15% at class level, use the class mode,

If missing is greater than or equal to 15% at class level and less than 15% at school level, use the school mode,

If missing is greater than or equal to 15% at school level and less than 15% at district level, use the district mode,

If missing is greater than or equal to 15% at district level and less than 15% at region level, use the region mode,

If missing is greater than or equal to 15% at region level and less than 15% at national level, use the national mode,

If missing is greater than or equal to 15% at national level there is no imputation.

PQ#03, PQ#04, PQ#09, PQ#10, PQ#11, PQ#13.01, PQ#13.02, PQ#13.03, PQ#13.04, PQ#13.05, PQ#13.06, PQ#13.07, PQ#13.08, PQ#13.09, PQ#13.10, PQ#13.11, PQ#13.12, PQ#13.13, PQ#13.14, PQ#15, PQ#16, PQ#17, PQ#18, PQ#19, PQ#20, PQ#25, PQ#26, PQ#29, PQ#30, PQ#31.1, PQ#31.2, PQ#31.3, PQ#31.4, PQ#31.5, PQ#31.6, PQ#33, PQ#34.1, PQ#34.2, PQ#34.3, PQ#35, PQ#41, PQ#45, PQ#48, PQ#49, PQ#50, PQ#51, PQ#52, PQ#53, PQ#54, PQ#55, PQ#56, PQ#58, PQ#59, PQ#60, PQ#61, PQ#62, PQ#65,

Type P3: If missing, use the negative (= "1")

PQ#08.1, PQ#08.2, PQ#08.3, PQ#08.4, PQ#08.5, PQ#08.6, PQ#08.7, PQ#08.8, PQ#08.9, PQ#14.01, PQ#14.02, PQ#14.03, PQ#14.04, PQ#14.05, PQ#14.06, PQ#14.07, PQ#14.08, PQ#14.09, PQ#14.10, PQ#14.11, PQ#14.12, PQ#14.13, PQ#14.14, PQ#14.15, PQ#14.16, PQ#14.17, PQ#14.18, PQ#14.19, PQ#14.20, PQ#14.21, PQ#14.22, PQ#14.23, PQ#14.24,

PQ#14.25, PQ#14.26, PQ#14.27, PQ#14.28, PQ#14.29, PQ#14.30, PQ#14.31, PQ#22.1, PQ#22.2, PQ#22.3, PQ#22.4, PQ#22.5, PQ#22.6, PQ#24.0, PQ#24.1, PQ#24.2, PQ#24.3, PQ#24.4, PQ#27.0, PQ#27.1, PQ#27.2, PQ#27.3, PQ#31.0, PQ#32.01, PQ#32.02, PQ#32.03, PQ#32.04, PQ#32.05, PQ#32.06, PQ#32.07, PQ#32.08, PQ#32.09, PQ#32.10, PQ#32.11, PQ#32.12, PQ#32.13, PQ#36, PQ#37.1, PQ#37.2, PQ#37.3, PQ#37.4, PQ#38.1, PQ#38.2, PQ#38.3, PQ#38.4, PQ#39.1, PQ#39.2, PQ#39.3, PQ#39.4, PQ#39.5, PQ#40.1, PQ#40.2, PQ#43.1, PQ#43.2, PQ#43.3, PQ#43.4, PQ#43.5, PQ#46.01, PQ#46.02, PQ#46.03, PQ#46.04, PQ#46.05, PQ#46.06, PQ#46.07, PQ#46.08, PQ#46.09, PQ#46.10, PQ#47.1, PQ#47.2, PQ#47.3, PQ#47.4, PQ#47.5, PQ#47.6, PQ#57.01, PQ#57.02, PQ#57.03, PQ#57.04, PQ#57.05, PQ#57.06, PQ#57.07, PQ#57.08, PQ#57.09, PQ#57.10, PQ#57.11, PQ#57.12, PQ#57.13, PQ#57.14, PQ#57.15, PQ#57.16, PQ#57.17, PQ#57.18, PQ#57.19, PQ#57.20, PQ#57.21, PQ#57.22, PQ#57.23, PQ#63, PQ#64.1, PQ#64.2, PQ#64.3, PQ#64.4, PQ#64.5, PQ#64.6, PQ#64.7, PQ#64.8, PQ#64.9

Type P4: If missing, use 0 (zero)

PQ#07.1, PQ#07.2, PQ#21, PQ#23, PQ#28.1, PQ#28.2, PQ#28.3, PQ#28.4, PQ#28.5, PQ#28.6, PQ#28.7, PQ#28.8

Type P5: If missing, use the Pupil Name Form information

PQ#02, PQ#05, PQ#06, PQ#01

2. Basic Rules for Teacher Questionnaire

Imputations are done separately for English Teacher and Math Teacher.

For those who have an English Teacher, apply the 15% rules starting the District level

For those who have a Math Teacher, apply the 15% rules starting the District level

If the same teacher teaches English and Math, but been imputed by Type T1 or T2, then the value for the English teacher is used.

Type T1: Use the Mean

If missing is less than 15% at district level, use the district mean,

If missing is greater than or equal to 15% at district level and less than 15% at region level, use the region mean,

If missing is greater than or equal to 15% at region level and less than 15% at national level, use the national mean,

If missing is greater than or equal to 15% at national level there is no imputation.

TQ#02, TQ#06, TQ#07, TQ#08, TQ#15, TQ#16, TQ#17, TQ#38

Type T2: Use the Mode

If missing is less than 15% at district level, use the district mode,

If missing is greater than or equal to 15% at district level and less than 15% at region level, use the region mode,

If missing is greater than or equal to 15% at region level and less than 15% at national level, use the national mode,

If missing is greater than or equal to 15% at national level there is no imputation.

TQ#03, TQ#04, TQ#05, TQ#09, TQ#10, TQ#13.1, TQ#13.2, TQ#18, TQ#22, TQ#24.0, TQ#25, TQ#28, TQ#29, TQ#30, TQ#33.1, TQ#33.2, TQ#35, TQ#36, TQ#37, TQ#40

Type T3: If missing, use the negative (= "1")

TQ#12.1, TQ#12.2, TQ#12.3, TQ#12.4, TQ#12.5, TQ#12.6, TQ#12.7, TQ#12.8, TQ#12.9, TQ#14.01, TQ#14.02, TQ#14.03, TQ#14.04, TQ#14.05, TQ#14.06, TQ#14.07, TQ#14.08, TQ#14.09, TQ#14.10, TQ#14.11, TQ#14.12, TQ#14.13, TQ#14.14, TQ#14.15, TQ#14.16, TQ#14.17, TQ#14.18, TQ#19.1, TQ#19.2, TQ#19.3, TQ#19.4, TQ#19.5, TQ#20.1, TQ#20.2, TQ#20.3, TQ#20.4, TQ#20.5, TQ#23, TQ#24.1, TQ#24.2, TQ#24.3, TQ#24.4, TQ#24.5, TQ#24.6, TQ#26.1, TQ#26.2, TQ#26.3, TQ#27, TQ#31, TQ#32, TQ#34.01, TQ#34.02, TQ#34.03, TQ#34.04, TQ#34.05, TQ#34.06, TQ#34.07, TQ#34.08, TQ#34.09, TQ#34.10, TQ#34.11, TQ#34.12, TQ#34.13, TQ#34.14, TQ#34.15, TQ#34.16, TQ#34.17, TQ#34.18, TQ#34.19, TQ#34.20, TQ#34.21, TQ#34.22, TQ#34.23, TQ#34.24, TQ#39.01, TQ#39.02, TQ#39.03, TQ#39.04, TQ#39.05, TQ#39.06, TQ#39.07, TQ#39.08, TQ#39.09, TQ#39.10, TQ#39.11, TQ#39.12, TQ#39.13, TQ#39.14, TQ#41

Type T4: If missing, use 0 (zero)

TQ#11, TQ#21.01, TQ#21.02, TQ#21.03, TQ#21.04, TQ#21.05, TQ#21.06, TQ#21.07, TQ#21.08, TQ#21.09, TQ#21.10, TQ#21.11, TQ#21.12

Type T5: If missing, use the Pupil Name Form information

TQ#01

3. Basic Rules for School Head Questionnaire

For those who have a School Head, apply the 15% rules starting the District level

Type S1: Use the Mean

If missing is less than 15% at district level, use the district mean,

If missing is greater than or equal to 15% at district level and less than 15% at region level, use the region mean,

If missing is greater than or equal to 15% at region level and less than 15% at national level, use the national mean,

If missing is greater than or equal to 15% at national level there is no imputation.

SQ#05, SQ#08, SQ#09, SQ#10.2, SQ#11.2, SQ#12, SQ#13

Type S2: Use the Mode

If missing is less than 15% at district level, use the district mode,

If missing is greater than or equal to 15% at district level and less than 15% at region level, use the region mode,

If missing is greater than or equal to 15% at region level and less than 15% at national level, use the national mode,

If missing is greater than or equal to 15% at national level there is no imputation.

SQ#02, SQ#03, SQ#06, SQ#07, SQ#15.01, SQ#15.02, SQ#15.03, SQ#15.04, SQ#15.05, SQ#15.06, SQ#15.07, SQ#15.08, SQ#15.09, SQ#15.10, SQ#15.11, SQ#15.12, SQ#15.13, SQ#15.14, SQ#15.15, SQ#15.16, SQ#15.17, SQ#15.18, SQ#16.01, SQ#16.02, SQ#16.03, SQ#16.04, SQ#16.05, SQ#16.06, SQ#16.07, SQ#16.08, SQ#16.09, SQ#16.10, SQ#17.01, SQ#17.02, SQ#17.03, SQ#17.04, SQ#17.05, SQ#17.06, SQ#17.07, SQ#17.08, SQ#17.09, SQ#17.10, SQ#17.11, SQ#18, SQ#20, SQ#22, SQ#23, SQ#24, SQ#27.1, SQ#27.2, SQ#29, SQ#30, SQ#31, SQ#34, SQ#36, SQ#37

Type S3: If missing, use the negative (= "1")

SQ#10, SQ#11, SQ#19.01, SQ#19.02, SQ#19.03, SQ#19.04, SQ#19.05, SQ#19.06, SQ#19.07, SQ#19.08, SQ#19.09, SQ#19.10, SQ#19.11, SQ#19.12, SQ#19.13, SQ#19.14, SQ#19.15, SQ#19.16, SQ#19.17, SQ#19.18, SQ#19.19, SQ#19.20, SQ#19.21, SQ#19.22, SQ#19.23, SQ#19.24, SQ#19.25, SQ#19.26, SQ#19.27, SQ#19.28, SQ#19.29, SQ#19.30, SQ#19.31, SQ#19.32, SQ#19.33, SQ#19.34, SQ#19.35, SQ#21.01, SQ#21.02, SQ#21.03, SQ#21.04, SQ#21.05, SQ#21.06, SQ#21.07, SQ#21.08, SQ#21.09, SQ#21.10, SQ#21.11, SQ#21.12, SQ#21.13, SQ#21.14, SQ#25, SQ#26, SQ#28.01, SQ#28.02, SQ#28.03, SQ#28.04, SQ#28.05, SQ#28.06, SQ#28.07, SQ#28.08, SQ#28.09, SQ#28.10, SQ#28.11, SQ#28.12, SQ#28.13, SQ#28.14, SQ#28.15, SQ#28.16, SQ#28.17, SQ#28.18, SQ#28.19, SQ#28.20, SQ#28.21, SQ#28.22, SQ#28.23, SQ#28.24, SQ#32, SQ#33.01, SQ#33.02, SQ#33.03, SQ#33.04, SQ#33.05, SQ#33.06, SQ#33.07, SQ#33.08, SQ#33.09, SQ#33.10, SQ#33.11, SQ#33.12, SQ#33.13, SQ#33.14, SQ#38.01A, SQ#38.01B, SQ#38.01C, SQ#38.01D, SQ#38.01E, SQ#38.02A, SQ#38.02B, SQ#38.02C, SQ#38.02D, SQ#38.02E, SQ#38.03A, SQ#38.03B, SQ#38.03C, SQ#38.03D, SQ#38.03E, SQ#38.04A, SQ#38.04B, SQ#38.04C, SQ#38.04D, SQ#38.04E, SQ#38.05A, SQ#38.05B, SQ#38.05C, SQ#38.05D, SQ#38.05E, SQ#38.06A, SQ#38.06B, SQ#38.06C, SQ#38.06D, SQ#38.06E, SQ#38.07A, SQ#38.07B, SQ#38.07C, SQ#38.07D, SQ#38.07E, SQ#38.08A, SQ#38.08B, SQ#38.08C, SQ#38.08D, SQ#38.08E, SQ#38.09A, SQ#38.09B, SQ#38.09C, SQ#38.09D, SQ#38.09E, SQ#38.10A, SQ#38.10B, SQ#38.10C, SQ#38.10D, SQ#38.10E, SQ#38.11A, SQ#38.11B, SQ#38.11C, SQ#38.11D, SQ#38.11E, SQ#38.12A, SQ#38.12B, SQ#38.12C, SQ#38.12D, SQ#38.12E, SQ#38.13A, SQ#38.13B, SQ#38.13C, SQ#38.13D, SQ#38.13E, SQ#38.14A, SQ#38.14B, SQ#38.14C, SQ#38.14D, SQ#38.14E, SQ#38.15A, SQ#38.15B, SQ#38.15C, SQ#38.15D, SQ#38.15E, SQ#39

Type S4: If missing, use 0 (zero)

SQ#35.01A, SQ#35.01B, SQ#35.01C, SQ#35.02A, SQ#35.02B, SQ#35.02C, SQ#35.03A, SQ#35.03B, SQ#35.03C, SQ#35.04A, SQ#35.04B, SQ#35.04C, SQ#35.05A, SQ#35.05B, SQ#35.05C, SQ#35.06A, SQ#35.06B, SQ#35.06C, SQ#35.07A, SQ#35.07B, SQ#35.07C, SQ#35.08A, SQ#35.08B, SQ#35.08C

Type S5: If missing, use the Pupil Name Form information

SQ#01, SQ#04

4. Basic Rules for School Information Booklet

Type S1: Use the Mean

If missing is less than 15% at district level, use the district mean,

If missing is greater than or equal to 15% at district level and less than 15% at region level, use the region mean,

If missing is greater than or equal to 15% at region level and less than 15% at national level, use the national mean,

If missing is greater than or equal to 15% at national level there is no imputation.

SI#1.1, SI#1.2, SI#1.3, SI#1.4, SI#1.5, SI#1.6, SI#1.7, SI#1.8, SI#16, SI#20

Type S3: If missing, use the negative (= "1")

SI#13, SI#15

Type S4: If missing, use 0 (zero)

SI#14, SI#17.1, SI#17.2, SI#17.3, SI#18.1A, SI#18.1B, SI#18.2A, SI#18.2B, SI#18.3A, SI#18.3B, SI#19.1, SI#19.2, SI#19.3, SI#19.4, SI#3.1, SI#3.2, SI#3.3, SI#3.4, SI#3.5, SI#4.1, SI#4.2, SI#4.3, SI#4.4, SI#4.5, SI#4.6, SI#5.01A, SI#5.01B, SI#5.01C, SI#5.02A, SI#5.02B, SI#5.02C, SI#5.03A, SI#5.03B, SI#5.03C, SI#5.04A, SI#5.04B, SI#5.04C, SI#5.05A, SI#5.05B, SI#5.05C, SI#5.06, SI#5.07A, SI#5.07B, SI#5.07C, SI#5.08A, SI#5.08B, SI#5.08C, SI#5.09A, SI#5.09B, SI#5.09C, SI#5.10A, SI#5.10B, SI#5.10C, SI#5.11A, SI#5.11B, SI#5.11C, SI#5.12, SI#6, SI#7.1, SI#7.2, SI#8

Type S5: If missing, use the Pupil Name Form information

SI#10.1, SI#10.2, SI#11, SI#12.1C, SI#12.1P, SI#12.2C, SI#12.2P, SI#12.3C, SI#12.3P, SI#12.4C, SI#12.4P, SI#12.5C, SI#12.5P, SI#2.1, SI#2.2, SI#2.3, SI#2.4, SI#2.5, SI#3.6, SI#4.7, SI#5(B), SI#5(D), SI#5(E), SI#9.1, SI#9.2

5. Basic Rules for School Form

Type S5: If missing, use the Pupil Name Form information

SFCLSES, SFNBOY5, SFNGIRL5, SFENR5, SFNBOY6, SFNGIRL6, SFENR6, SFNBOY7, SFNGIRL7, SFENR7,
SFTMALE5, SFTFMAL5, SFTTOT5, SFTMALE6, SFTFMAL6, SFTTOT6, SFTMALE7, SFTFMAL7, SFTTOT7, SFPUPG6,
SFCLAG6, SFRDGTG6, SFMATTG6, SFHLTTG6, SFPUP