

DERIVED CONTEXT VARIABLES

Mathematics Teacher Questionnaire – Grades 8 & 9

Derived Variable Name:

BTDMME

Variable Label:

Teachers Majored in Mathematics and Mathematics Education (2023)

International Report Exhibits

Exhibits 5.1.8 – 5.1.9: Teachers Majored in Mathematics and Mathematics Education – Teachers' Reports

Procedure

Based on responses to the following questions in the Mathematics Teacher Questionnaire administered in 2023:
TQG-04: What is the highest level of formal education you have completed? (BTBG04)

Response options: 1 = "Did not complete <Upper secondary education—ISCED Level 3>"

2 = "<Upper secondary education—ISCED Level 3>"

3 = "<Post-secondary, non-tertiary education—ISCED Level 4>"

4 = "<Short-cycle tertiary education—ISCED Level 5>"

5 = "Bachelor's or equivalent level—ISCED Level 6>"

6 = "Master's or equivalent level—ISCED Level 7>"

7 = "Doctor or equivalent level—ISCED Level 8>"

TQG-05a-i: During your <post-secondary> education, what was your major or main area(s) of study?

"Mathematics" (BTBG05A)

"Education—Mathematics" (BTBG05F)

Response options: 1 = "Yes"

2 = "No"

Derive BTDMME:

1 = "Major in Mathematics and Mathematics Education" = IF (BTBG05A = 1 AND BTBG05F = 1)

2 = "Major in Mathematics but No Major in Mathematics Education" = IF (BTBG05A = 1 AND BTBG05F = 2)

3 = "Major in Mathematics Education but No Major in Mathematics" = IF (BTBG05A = 2 AND BTBG05F = 1)

4 = "All other majors" = IF (BTBG05A = 2 AND BTBG05F = 2)

5 = "No formal education beyond upper-secondary" = IF (BTBG04 = 1 OR 2)

Otherwise, set to missing.

1 = "Major in Mathematics and Mathematics Education"

2 = "Major in Mathematics but No Major in Mathematics Education"

3 = "Major in Mathematics Education but No Major in Mathematics"

4 = "All other majors"

5 = "No formal education beyond upper-secondary"

Comments

See BTDLMMME for variable derived from 2024 questionnaire data.

Derived Variable Name:

BTDLMMME

Variable Label:

Teachers Majored in Mathematics and Mathematics Education (2024)

International Report Exhibits

Exhibits 5.1.8 – 5.1.9: Teachers Majored in Mathematics and Mathematics Education – Teachers' Reports

Procedure

Based on responses to the following questions in the Mathematics Teacher Questionnaire administered in 2024:
TQG-04: What is the highest level of formal education you have completed? (BTBLG04)

Response options: 1 = "Did not complete <Upper secondary education—ISCED Level 3>"
2 = "<Upper secondary education—ISCED Level 3>"
3 = "<Post-secondary, non-tertiary education—ISCED Level 4>"
4 = "<Short-cycle tertiary education—ISCED Level 5>"
5 = "Bachelor's or equivalent level—ISCED Level 6>"
6 = "Master's or equivalent level—ISCED Level 7>"
7 = "Doctor or equivalent level—ISCED Level 8>"

TQG-05a-i: During your <post-secondary> education, what was your major or main area(s) of study?
"Mathematics" (BTBLG05A)

"Education—Mathematics" (BTBLG05F)

Response options: 1 = "Yes"
2 = "No"

Derive BTDLMMME:

1 = "Major in Mathematics and Mathematics Education" = IF (BTBLG05A = 1 AND BTBLG05F = 1)
2 = "Major in Mathematics but No Major in Mathematics Education" = IF (BTBLG05A = 1 AND BTBLG05F = 2)
3 = "Major in Mathematics Education but No Major in Mathematics" = IF (BTBLG05A = 2 AND BTBLG05F = 1)
4 = "All other majors" = IF (BTBLG05A = 2 AND BTBLG05F = 2)
5 = "No formal education beyond upper-secondary" = IF (BTBLG04 = 1 OR 2)
Otherwise, set to missing.

1 = "Major in Mathematics and Mathematics Education"
2 = "Major in Mathematics but No Major in Mathematics Education"
3 = "Major in Mathematics Education but No Major in Mathematics"
4 = "All other majors"
5 = "No formal education beyond upper-secondary"

Comments

See BTDLMMME for variable derived from 2023 questionnaire data.

Derived Variable Name:

BTDMHW

Variable Label:

Mathematics Instruction Hours per Week (2023)

Procedure

Based on responses to the following question in the Mathematics Teacher Questionnaire administered in 2023:

TQM-14: In a typical week, how much time do you spend teaching mathematics to the students in this class? (BTBM14)

(Open-response item; response in terms of minutes)

Derive BTDMHW:

Step 1: Divide BTBM14 by 60.

Set BTDMHW to missing if source variable is missing.

Comments

See BTDLHW for variable derived from 2024 questionnaire data.

Derived Variable Name:

BTDLMHW

Variable Label:

Mathematics Instruction Hours per Week (2024)

Procedure

Based on responses to the following question in the Mathematics Teacher Questionnaire administered in 2024:

TQM-12: In a typical week, how much time do you spend teaching mathematics to the students in this class? (BTBLM12)

(Open-response item; response in terms of minutes)

Derive BTDLMHW:

Step 1: Divide BTBLM12 by 60.

Set BTDLMHW to missing if source variable is missing.

Comments

See BTDMHW for variable derived from 2023 questionnaire data.