Student Name _____

3rd
4th
5th
6th
7th
8th
FS

M-Step™
Michigan Student Test of Educational Progress

Sample Items

Grade 4

Form S

MATHEMATICS

1. Select the statement that explains how the values of the numbers 420 and 4,200 are different.

A. 4,200 is 1,000 times as large as 420
B. 4,200 is 100 times as large as 420
C. 4,200 is 10 times as large as 420
D. 4,200 is 1 time as large as 420

2. Choose the box that matches each figure as pictured with its description. Each figure may be matched to more than one description.

	Has at Least One Right Angle	Has at Least One Pair of Perpendicular Sides	Has at Least One Pair of Parallel Sides
Rectangle	☐	☐	☐
Rhombus	☐	☐	☐
Parallelogram	☐	☐	☐

3. Figure A has $\frac{2}{3}$ of its whole shaded gray.

Figure A

Decide if each fraction is equal to $\frac{2}{3}$. Select Yes or No for each fraction.

	Yes	No
$\frac{4}{6}$	☐	☐
$\frac{1}{2}$	☐	☐
$\frac{8}{12}$	☐	☐

4. Select True or False for each comparison.

	True	False
$\frac{1}{4} < \frac{2}{12}$	☐	☐
$\frac{2}{10} > \frac{3}{5}$	☐	☐
$\frac{4}{6} > \frac{5}{12}$	☐	☐

5. A pattern is generated using this rule:

Start with the number 7 as the first term and add 5.
Enter numbers into the boxes to complete the table.

Term	Number
First	7
Second	
Third	
Fourth	
Fifth	

6. Select True or False for each comparison.

	True	False
5 hundreds + 4 tens > 50 + 400	☐	☐
524 < 50 + 200 + 4	☐	☐
50 tens + 20 ones = 520	☐	☐

7. Select **all** the numbers that make this inequality true.

$2\frac{1}{8} > \square + 1 + \frac{1}{8}$

- ☐ $\frac{1}{8}$
- ☐ $\frac{4}{8}$
- ☐ $\frac{10}{8}$
- ☐ $\frac{16}{8}$

8. Select **all** equations that are true.

- ☐ $\frac{4}{10} = 0.04$
- ☐ $\frac{17}{100} = 0.17$
- ☐ $\frac{9}{100} = 0.09$
- ☐ $\frac{6}{100} = 0.60$

9. Decide whether each expression is equal to $5 \times \frac{2}{4}$.

Enter your response in the table.

	Equal to $5 \times \frac{2}{4}$	**Not Equal to** $5 \times \frac{2}{4}$
$2 \times \frac{1}{20}$	☐	☐
$4 \times \frac{2}{5}$	☐	☐
$10 \times \frac{1}{4}$	☐	☐

Answer Key

1. C

2. * These answers are for the figures as pictured.

	Has at Least One Right Angle	Has at Least One Pair of Perpendicular Sides	Has at Least One Pair of Parallel Sides
Rectangle	☑	☑	☑
Rhombus	☐	☐	☑
Parallelogram	☐	☐	☑

3. Yes, No, Yes

4. False, False, True

5.

Term	Number
First	7
Second	12
Third	17
Fourth	22
Fifth	27

6. True, False, True

7. $\frac{1}{8}$, $\frac{4}{8}$

8. $\frac{17}{100} = 0.17$, $\frac{9}{100} = 0.09$

9. Not Equal to, Not Equal to, Equal to

3rd

4th

5th

6th

7th

8th

FS

MICHIGAN
Department of Education

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