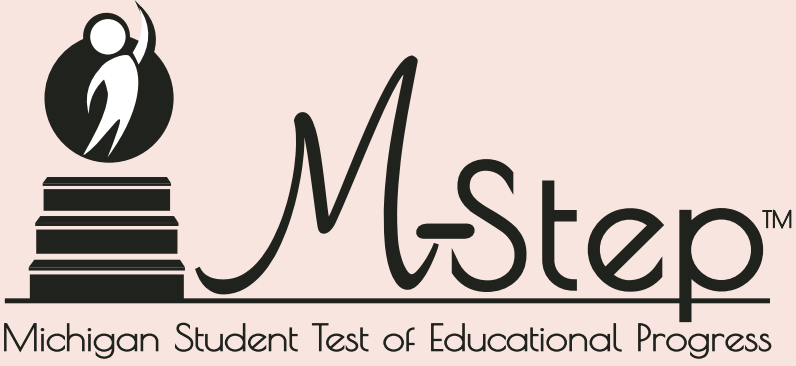


Student Name _____



3rd

4th

5th

6th

7th

8th

FS

8
7
6
5
4
3
2
1
0

Sample Items



Grade
4

Form
S

MATHEMATICS

M-STEP Grade 4 MATHEMATICS Sample

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

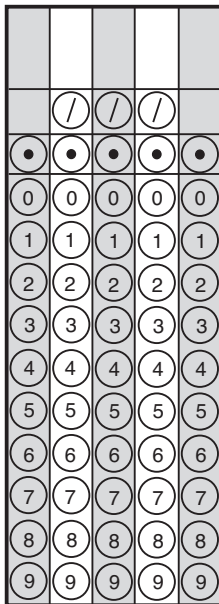
- A. 4,200 is 1,000 times as large as 420
- B. 4,200 is 100 times as large as 420
- C. 4,200 is 10 times as large as 420
- D. 4,200 is 1 time as large as 420

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






Figure A

Enter **another** fraction equal to $\frac{\quad}{\quad}$.

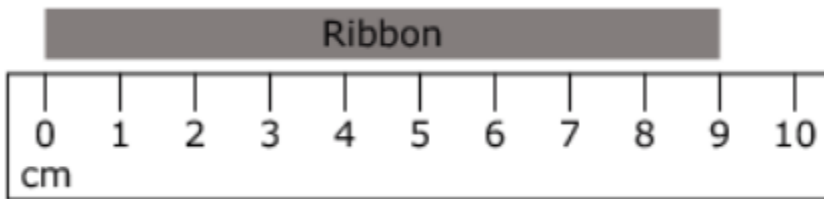


M-STEP Grade 4 MATHEMATICS Sample

3. 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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 Rhombus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 Parallelogram	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. Enter the length in **millimeters** of the ribbon.



5. Enter the sum.

$$\begin{array}{r} 4325 \\ + 654 \\ \hline \end{array}$$

6. 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
$\frac{4}{6}$	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{1}{2}$	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{8}{12}$	<input type="checkbox"/>	<input type="checkbox"/>

M-STEP Grade 4 MATHEMATICS Sample

7. The cost of buying a movie is 4 times the cost of renting a movie. It costs \$20 to buy a movie. What is the cost in dollars of renting a movie?

Enter your answer in the response box.

8. Select True or False for each comparison.

	True	False
$\frac{1}{4} < \frac{2}{12}$	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{2}{10} > \frac{3}{5}$	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{4}{6} > \frac{5}{12}$	<input type="checkbox"/>	<input type="checkbox"/>

M-STEP Grade 4 MATHEMATICS Sample

9. 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	<input type="text"/>
Third	<input type="text"/>
Fourth	<input type="text"/>
Fifth	<input type="text"/>

10. Select True or False for each comparison.

	True	False
5 hundreds + 4 tens > 50 + 400	<input type="checkbox"/>	<input type="checkbox"/>
524 < 50 + 200 + 4	<input type="checkbox"/>	<input type="checkbox"/>
50 tens + 20 ones = 520	<input type="checkbox"/>	<input type="checkbox"/>

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

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

$\frac{1}{8}$

$\frac{4}{8}$

$\frac{10}{8}$

$\frac{16}{8}$

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

$\frac{4}{10} = 0.04$

$\frac{17}{100} = 0.17$

$\frac{9}{100} = 0.09$

$\frac{6}{100} = 0.60$

M-STEP Grade 4 MATHEMATICS Sample

- 13.** A cat has 2 times as many toys as a puppy. The cat has 12 toys.
How many toys does the puppy have? Enter your answer in the response box.

- 14.** 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 $5 \times \frac{2}{4}$
$2 \times \frac{1}{20}$	<input type="checkbox"/>	<input type="checkbox"/>
$4 \times \frac{2}{5}$	<input type="checkbox"/>	<input type="checkbox"/>
$10 \times \frac{1}{4}$	<input type="checkbox"/>	<input type="checkbox"/>

Answer Key

1. C

2. e.g., $\frac{1}{3}$

3. * 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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 Rhombus	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 Parallelogram	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

4. 90 mm

5. 4979

6. Yes, No, Yes

7. \$5

8. False, False, True

9.

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

10. True, False, True

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

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

13. 6 toys

14. Not Equal to, Not Equal to, Equal to

3rd

4th

5th

6th

7th

8th

FS



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