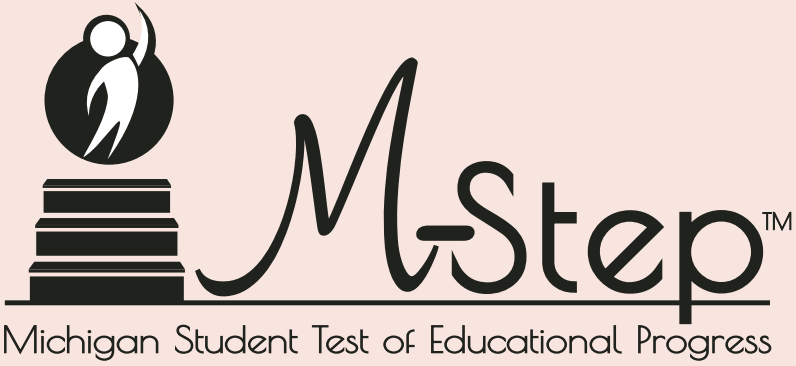


Student Name _____



3rd

4th

5th

6th

7th

8th

FS

8
7
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2
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0

Sample Items



Grade
6
Form
S

MATHEMATICS

M-STEP Grade 6 MATHEMATICS Sample

No calculators are allowed on items 1 to 4.

1. Sea level is 0 feet in elevation. The elevation of land represents its height above or below sea level. This table shows the lowest elevation in some states.

State	Lowest Elevation (ft)
Arizona	72
California	- 282
Louisiana	- 68
Tennessee	178

Determine whether each statement about the lowest elevations is correct. Select True or False for each statement.

	True	False
The elevation at the lowest point in California is higher than the lowest point in Louisiana.	<input type="checkbox"/>	<input type="checkbox"/>
The elevation at the lowest point in Tennessee is farther from 0 than the elevation at the lowest point of Louisiana.	<input type="checkbox"/>	<input type="checkbox"/>
The elevation at the lowest point in Louisiana is higher than the lowest point in California.	<input type="checkbox"/>	<input type="checkbox"/>

M-STEP Grade 6 MATHEMATICS Sample

2. Consider the inequality $x > 7$.

Determine whether each value of x shown in the table makes this inequality true. Select Yes or No for each value.

	Yes	No
22	<input type="checkbox"/>	<input type="checkbox"/>
-7	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>
-39	<input type="checkbox"/>	<input type="checkbox"/>

3. Select all equations that have $x = 3$ as a solution.

- $x + 7 = 10$
- $3 + x = 3$
- $x \cdot 3 = 1$
- $4 \cdot x = 12$

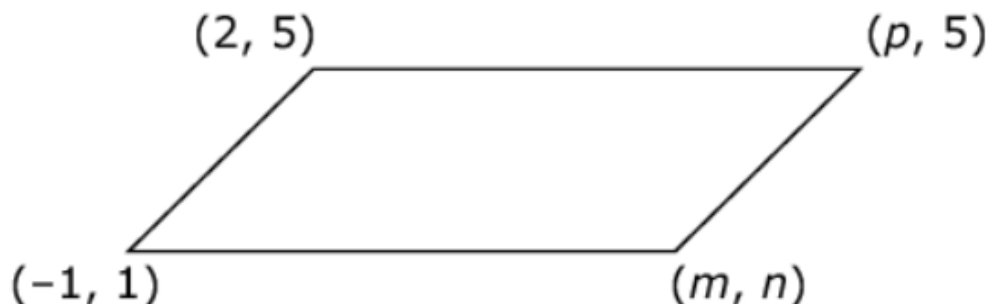
4. Select all the expressions that are equivalent to $8(t + 4)$.

- $2(4t + 2)$
- $8t + 32$
- $4t + 4 + 4t$
- $(8 + t) + (8 + 4)$
- $(8 \times t) + (8 \times 4)$

M-STEP Grade 6 MATHEMATICS Sample

Calculators allowed on following items.

5. The coordinates of this parallelogram are given.



Determine if each statement is True or False.

	True	False
The length of the longer side is $p - 2$.	<input type="checkbox"/>	<input type="checkbox"/>
The length of the longer side is $n + 1$.	<input type="checkbox"/>	<input type="checkbox"/>
The short side is 4 units in length.	<input type="checkbox"/>	<input type="checkbox"/>
$n = 5$	<input type="checkbox"/>	<input type="checkbox"/>
$m > n$	<input type="checkbox"/>	<input type="checkbox"/>
$p = 2$	<input type="checkbox"/>	<input type="checkbox"/>

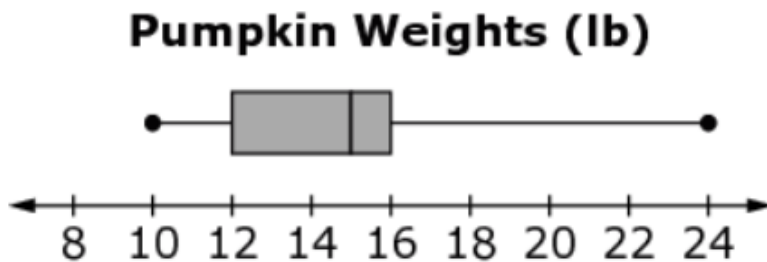
6. A statistical question is one where you expect to get a variety of answers. Determine whether each question can be classified as a statistical question. Select Yes or No for each question.

	Yes	No
How many hours a week do people exercise?	<input type="checkbox"/>	<input type="checkbox"/>
How many hours are there in a day?	<input type="checkbox"/>	<input type="checkbox"/>
How many rainbows have students seen this month?	<input type="checkbox"/>	<input type="checkbox"/>

7. This table contains x and y values in equivalent ratios. Fill in the missing value in the table.

x	y
2	6
5	<input type="text"/>
7	21
9	27

8. Look at the box-and-whisker plot of pumpkin weights.



What is the **median** pumpkin weight?

- A. 12 lb
- B. 14 lb
- C. 15 lb
- D. 16 lb

Answer Key

- 1.** False, True, True
- 2.** Yes, No, Yes, No, No
- 3.** $x + 7 = 10$, $4 \bullet x = 12$
- 4.** $8t + 32$, $(8 \times t) + (8 \times 4)$
- 5.** True, False, False, False, True, False
- 6.** Yes, No, Yes
- 7.** 15
- 8.** C

3rd

4th

5th

6th

7th

8th

FS



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