

# Mathematics Sample Test Booklet 2018

Paper-Pencil Format  
Student Version, Grades 3–5

**This test booklet contains several different types of problems as shown below. Each sample shows what a certain type of problem looks like in the test booklet. Respond to each problem in your answer booklet. Let's practice!**

**Sample A – Multiple Choice:**

Exactly how many sides does a square have?

- A. 2
- B. 3
- C. 4
- D. 5

**Sample B – Multiple-select Response:**

Select **all** numbers that are greater than 6.

- A. 2
- B. 4
- C. 6
- D. 8
- E. 9

**Sample C – Table Response:**

Decide whether each equation is true. Select Yes or No for each equation.

		<b>Yes</b>	<b>No</b>
<b>a.</b>	$5 \times 1 = 6$	<b>(Y)</b>	<b>(N)</b>
<b>b.</b>	$4 + 2 = 8$	<b>(Y)</b>	<b>(N)</b>
<b>c.</b>	$7 - 4 = 3$	<b>(Y)</b>	<b>(N)</b>

**Sample D – Short Response:**

Draw a point on the number line where the number 2 is located.



**Sample E – Answer Box:**

Enter the difference:  $45 - 23 =$

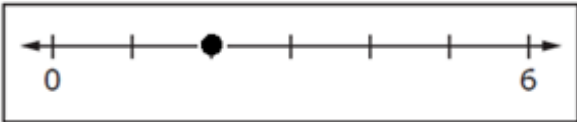
**This table shows how the sample problems on page 2 should be completed in the answer booklet.**


**SAMPLES**

**A**  A  B  C  D

**B**  A  B  C  D  E  
 Select all that apply.

**C** *a*  Y  N  
*b*  Y  N  
*c*  Y  N

**D** 

**E**   
 Write your answer in the box shown above.

# **Mathematics**

## **Grades 3–5**

### **Sample Booklet**

**Read each problem carefully and follow the directions. You may do your work in this test booklet, but you must mark your answers in the answer booklet.**

1. Which expression is equal to  $3 \times 7$ ?

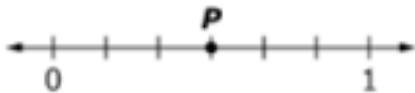
A.  $(2 \times 7) + (1 \times 7)$

B.  $(7 \times 5) - 2$

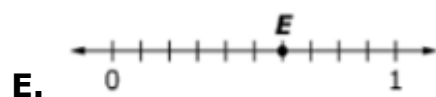
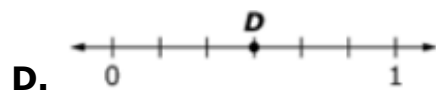
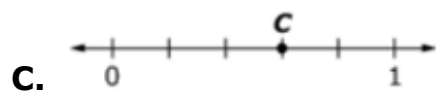
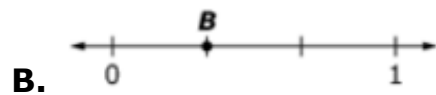
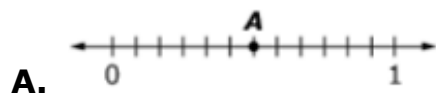
C.  $(3 \times 4) + (3 \times 5)$

D.  $(3 \times 4) \times 3$

2. Use this number line to solve the problem.



Choose **all** the number lines that show a number equal to the number shown by point  $P$



3. Decide if each equation is true or false. Select True or False for each equation.

	True	False
a. $3 \times 6 = 18 \div 2$	( T )	( F )
b. $4 \times 9 = 36 \div 4$	( T )	( F )
c. $2 \times 5 = 20 \div 2$	( T )	( F )

4. Does replacing the unknown number with 7 make each equation true? Select Yes or No for each equation.

	Yes	No
a. $6 \times \square = 36$	( Y )	( N )
b. $8 \times \square = 64$	( Y )	( N )
c. $49 \div \square = 7$	( Y )	( N )
d. $54 \div \square = 6$	( Y )	( N )

5. What unknown number makes this equation true?

$$904 - 256 = \square$$

6. Figure A has  $\frac{4}{12}$  of its whole shaded gray.



Figure A

What is **another** fraction equal to  $\frac{4}{12}$  ?

7. Lisa has 3 pizzas. Each pizza is cut into 8 pieces. Lisa eats 2 pieces.

How many pieces are left?

Write an equation to show how many pieces are left.

8. A pattern is generated using this rule:

Start with the number 7 as the first term and add 5.

Write a number in each box to complete the table.

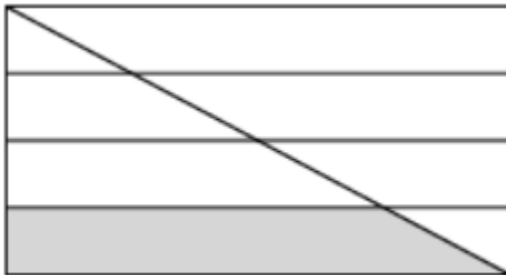
Term	Number
First	7
Second	
Third	
Fourth	
Fifth	

9. Maya says that a rhombus cannot be a rectangle.

Show Maya that her statement is **not** true.

Draw a rhombus on the grid that is also a rectangle.

10. Jamie drew this shape.



She says, "I divided the shape into 8 parts. I shaded 1 part gray.

So  $\frac{1}{8}$  of the shape is shaded gray."

Is Jamie correct? Explain why or why not.