



# **Practice Items**

## **Grade 5**

### **Mathematics**

**Examiner's Copy  
and  
Student Materials**

Virginia Department of Education

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Printed in the United States of America.

Item 1

Option:

Here is a number pattern. (Point to student materials.) 2, blank, 4, 5, 6. The rule for this pattern is to add one. Which number should go in the blank? 1, 3, or 9

| A | B | C | Student Response |
|---|---|---|------------------|
| 1 | 3 | 9 |                  |

Item 2

Option:

Here are three numbers. (Point to student materials.) Which number is a multiple of 10? 5, 15, or 20

| A | B  | C  | Student Response |
|---|----|----|------------------|
| 5 | 15 | 20 |                  |

Item 3

Option:

Here is a number line from 2 to 6 with a point labeled B. (Point to student materials.) Is this point at 3.5, 4.5, or 5? 3.5, 4.5, or 5

| A   | B   | C | Student Response |
|-----|-----|---|------------------|
| 3.5 | 4.5 | 5 |                  |

Item 4

Option:

Here is a subtraction problem: 12 minus 8. (Point to student materials.) If you have 12 oranges and take away 8, how many oranges are left? 4, 6, or 8

| A | B | C | Student Response |
|---|---|---|------------------|
| 4 | 6 | 8 |                  |

Item 5

Option:

Here is an addition problem. (Point to student materials.) If Max picked 27 flowers on Saturday and another 22 flowers on Sunday, how many total flowers did Max pick? 47, 49, or 50

| A  | B  | C  | Student Response |
|----|----|----|------------------|
| 47 | 49 | 50 |                  |

Item 6

Option:

Here is a block with a base area of 4 square inches and a height of 2 inches. (Point to student materials.) Volume equals the area of the base times the height, or  $V$  equals  $B$  times  $h$ . What is the volume of the block? 2 inches cubed, 4 inches cubed, or 8 inches cubed

| A                  | B                  | C                  | Student Response |
|--------------------|--------------------|--------------------|------------------|
| 2 in. <sup>3</sup> | 4 in. <sup>3</sup> | 8 in. <sup>3</sup> |                  |

Item 7

Option:

Here are three expressions. (Point to student materials.) Which expression matches the statement: thirty-five minus fifteen? (Do not read answer choices.) A, B, or C

A

$35 - 15$

B

$35 + 15$

C

$30 - 5$

Student  
Response

Item 8

Option:

Here is a math problem using money. (Point to student materials.) An apple costs \$0.75. Beth paid \$1.00 for the apple. How much change should Beth get back? one penny, one dime, or one quarter

A



one penny

B



one dime

C



one quarter

Student  
Response

Item 9

Option:

Here is a clock showing 8 PM. (Point to student materials.) If it is 8 PM now, what time will it be 2 hours later? 6 PM, 8 PM, or 10 PM

A

6 PM

B

8 PM

C

10 PM

Student  
Response

Item 10

Option:

Here is a number line from 6 to 10, with a point at 8.5. (Point to student materials.) What is 8.5 rounded to the nearest whole number? 5, 8.5, or 9

A

5

B

8.5

C

9

Student  
Response

Item 11

Option:

Here is a unit cube that is 1-inch, by 1-inch, by 1-inch, and a box that has a base area of 6 square inches and a height of 3 inches. (Point to student materials.) Volume equals the area of the base times the height, or  $V$  equals  $B$  times  $h$ . How many unit cubes will fit in this box? 10, 14, or 18

A

10

B

14

C

18

Student  
Response

Item 12

Option:

Here is a description of a multiplication problem and three equations. (Point to student materials.) Which of these equations matches ten times three equals thirty? (Do not read answer choices.) A, B, or C

A

$$10 \times 3 = 30$$

B

$$11 \times 3 = 33$$

C

$$10 \times 4 = 40$$

Student  
Response

Item 13

Option:

Here are three numbers: 7, 25, and 29. (Point to answer options.) Which number is evenly divisible by 5? 7, 25, or 29

A

7

B

25

C

29

Student  
Response

Item 1

2, \_\_\_\_, 4, 5, 6

The rule for this pattern is to add 1.

Which number should go in the blank?



1

**A**



3

**B**



9

**C**

Item 2

Which number is a multiple of 10?

5

**A**

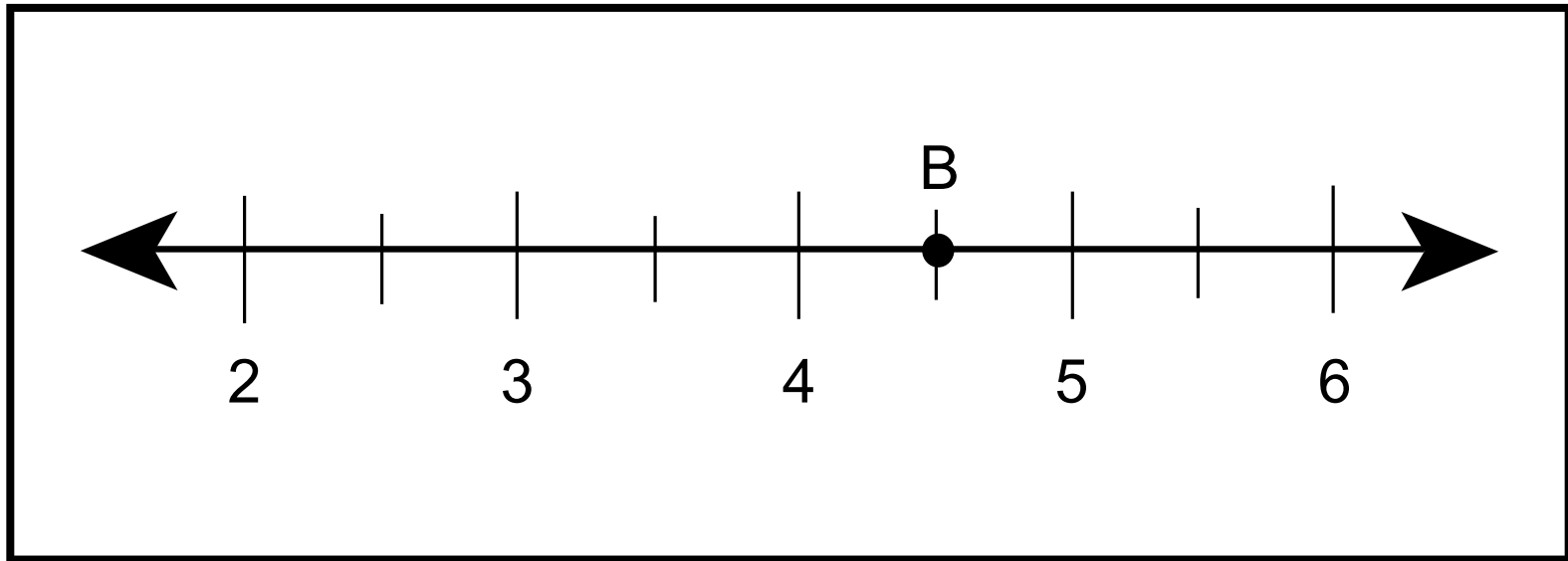
15

**B**

20

**C**

Item 3



Is this point at 3.5, 4.5, or 5 ?

3.5

**A**

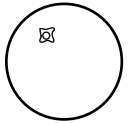
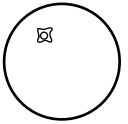
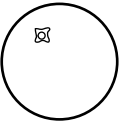
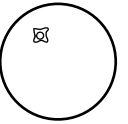
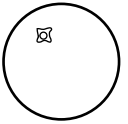
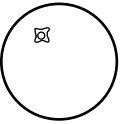
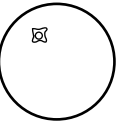
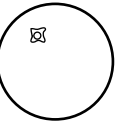
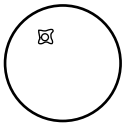
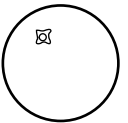
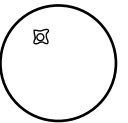
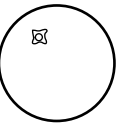
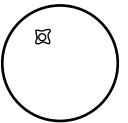
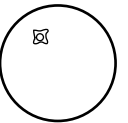
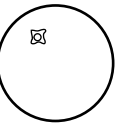
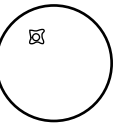
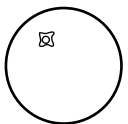
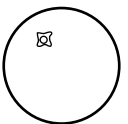
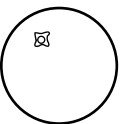
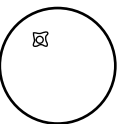
4.5

**B**

5

**C**

Item 4

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |                                                    |  |  |  |  |
|  |  |  |  | $\begin{array}{r} 12 \\ - 8 \\ \hline \end{array}$ |  |  |  |  |
|  |  |  |  |                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

If you have 12 oranges and take away 8, how many oranges are left?

|   |
|---|
| 4 |
|---|

**A**

|   |
|---|
| 6 |
|---|

**B**

|   |
|---|
| 8 |
|---|

**C**



Item 5

$$27 + 22 = \underline{\quad? \quad}$$

If Max picked 27 flowers on Saturday and another 22 flowers on Sunday, how many total flowers did Max pick?

47

**A**

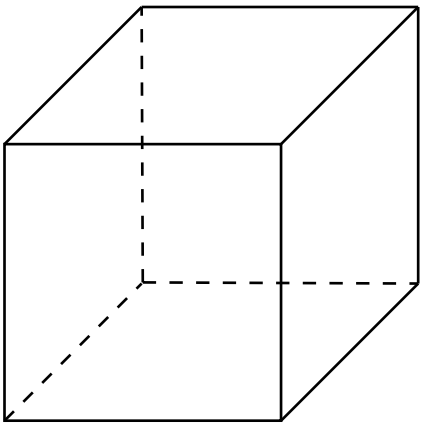
49

**B**

50

**C**

Item 6



$B = 4 \text{ in}^2$

$h = 2 \text{ in}$

$V = B \times h$

$V = 4 \times 2 = \underline{\hspace{1cm}} \text{ in}^3$

What is the volume of the block?

$2 \text{ in}^3$

A

$4 \text{ in}^3$

B

$8 \text{ in}^3$

C

Item 7

Which expression matches the statement:

thirty-five minus fifteen?

$$35 - 15$$

A

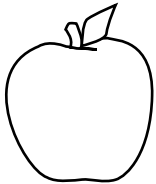
$$35 + 15$$

B

$$30 - 5$$

C

Item 8

 $= \$0.75 =$ 

 $-$  $=$        ?

An apple costs \$0.75. Beth paid \$1.00 for the apple.

How much change should Beth get back?



one penny

A



one dime

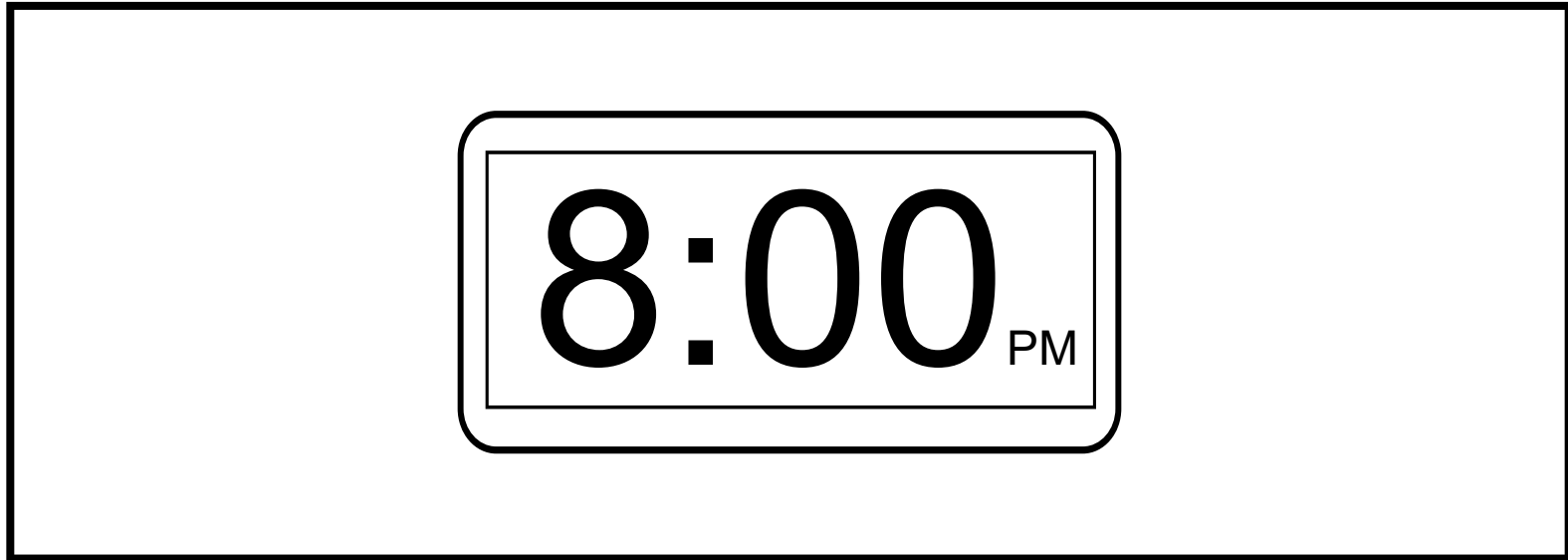
B



one quarter

C

Item 9



If it is 8:00 pm now, what time will it be 2 hours later?

6:00 PM

**A**

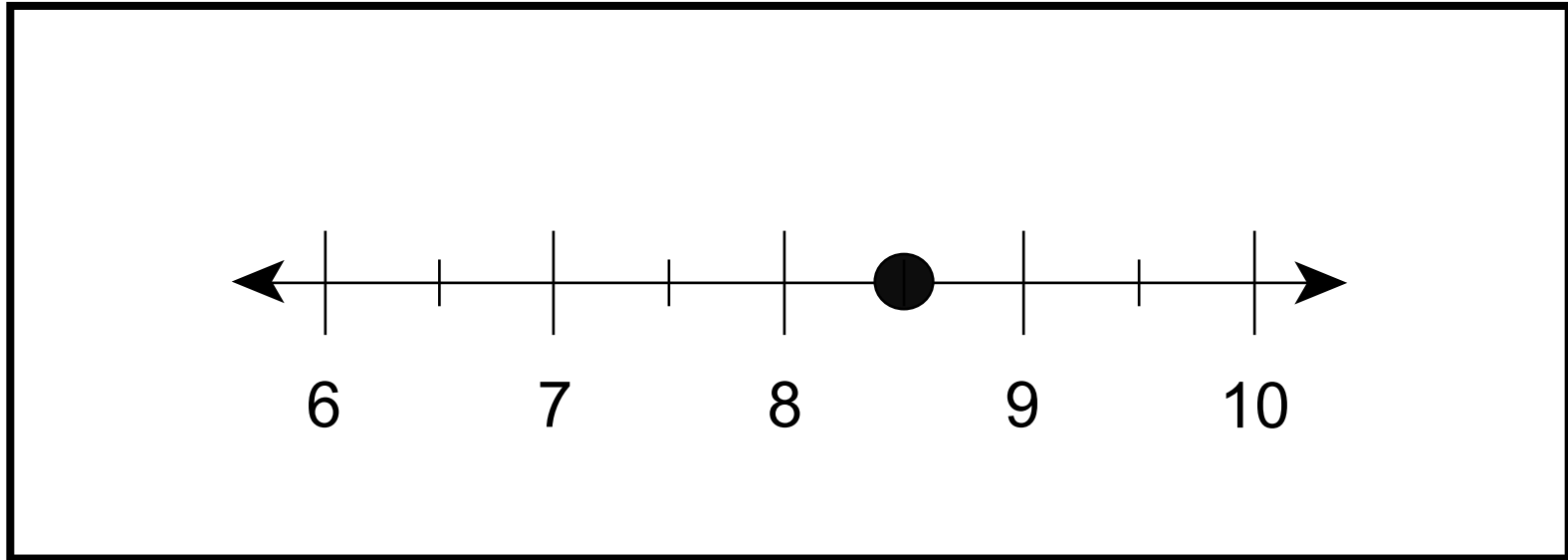
8:00 PM

**B**

10:00 PM

**C**

Item 10



What is 8.5 rounded to the nearest whole number?

5

**A**

8.5

**B**

9

**C**

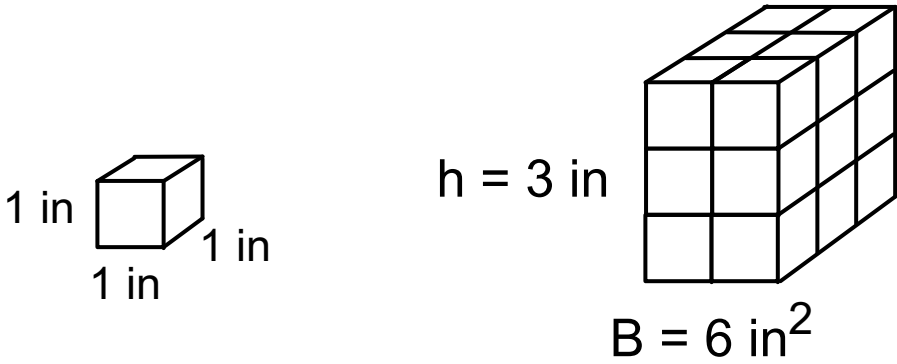
Item 11

1 in 1 in 1 in

$h = 3 \text{ in}$

$B = 6 \text{ in}^2$

$V = B \times h$



How many unit cubes will fit in this box?

10

**A**

14

**B**

18

**C**

Item 12

Which of these equations matches ten times three equals thirty?

$$10 \times 3 = 30$$

**A**

$$11 \times 3 = 33$$

**B**

$$10 \times 4 = 40$$

**C**



Item 13

Which number is evenly divisible by 5?

7

**A**

25

**B**

29

**C**

