

# 3 Standardized Test Practice

1. The school store sells 4 pencils for \$0.50. At that rate, what would be the cost of 10 pencils?

- A. \$1.10
- B. \$1.25
- C. \$2.00
- D. \$5.00

2. Which expressions do *not* have a value of 3?

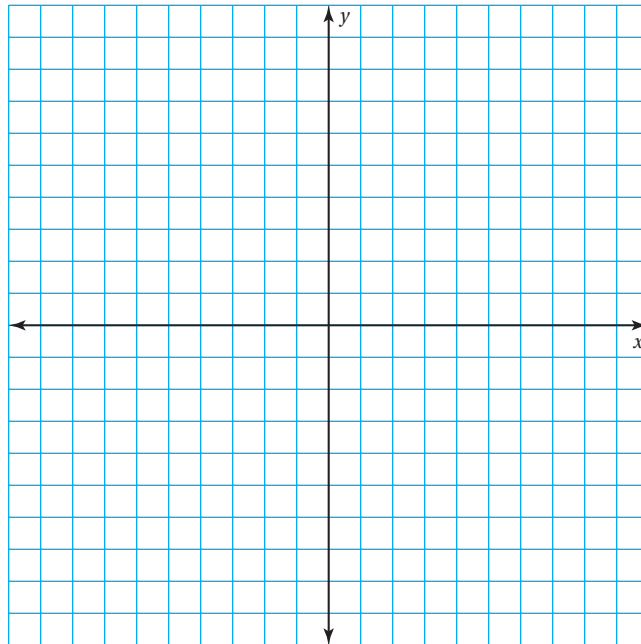
- I.  $|3|$
- II.  $|-3|$
- III.  $-|3|$
- IV.  $-|-3|$
- F. I and II
- G. I and III
- H. II and IV
- I. III and IV

3. What is the value of  $y$  in the equation below when  $x = 12$  and  $k = 3$ ?



$$xy = k$$

4. Use the coordinate plane to answer the question below.



A line contains both the point  $(0, 5)$  and the point  $(5, 0)$ . Which of the following points is also on this line?

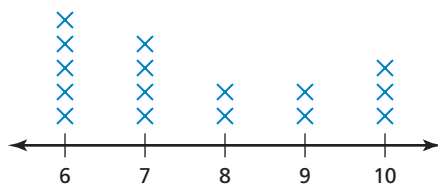
- A.  $(0, -5)$
- B.  $(3, 3)$
- C.  $(5, 5)$
- D.  $(7, -2)$

**Test-Taking Strategy**  
**Read Question Before Answering**

What is **NOT** the ratio of human years to dog years?  
(A)  $\frac{1}{7}$  (B) 1:7 (C) 1 to 7 (D) 7

**"Be sure to read the question before choosing your answer. You may find a word that changes the meaning."**

5. The scores from a diving competition are shown in the line plot below.



What is the median score?

- F. 7  
G. 6  
H. 5  
I. 4
6. Meli was solving the equation in the box below.

$$\begin{aligned} -\frac{1}{2}(4x - 10) &= -16 \\ -2x - 5 &= -16 \\ -2x - 5 + 5 &= -16 + 5 \\ -2x &= -11 \\ \frac{-2x}{-2} &= \frac{-11}{-2} \\ x &= \frac{11}{2} \end{aligned}$$

What should Meli do to correct the error that she made?

- A. Distribute the  $-\frac{1}{2}$  to get  $-2x + 5$ .  
B. Distribute the  $-\frac{1}{2}$  to get  $2x - 5$ .  
C. Divide  $-11$  by  $-2$  to get  $-\frac{11}{2}$ .  
D. Add 2 to  $-11$  to get  $-9$ .
7. What is the value of the expression below when  $n = -8$  and  $p = -4$ ?

$$-9n - p$$

- F. 76  
G. 68  
H.  $-68$   
I.  $-76$

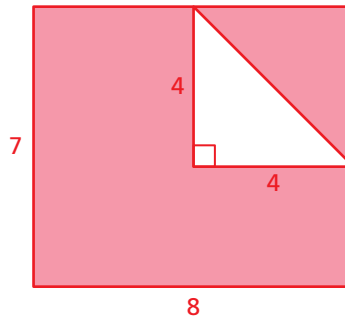
8. How many millimeters are equivalent to 20 inches?  
(Use 1 millimeter  $\approx$  0.04 inch.)



9. If 5 dogs share equally a bag of dog treats, each dog gets 24 treats. Suppose 8 dogs share equally the bag of treats. How many treats does each dog get?

- A. 3  
B. 15  
C. 21  
D. 38

10. The figure below consists of a rectangle and a right triangle.



What is the area of the shaded region?

- F. 23 units<sup>2</sup>  
G. 40 units<sup>2</sup>  
H. 48 units<sup>2</sup>  
I. 60 units<sup>2</sup>

11. You can mow 800 square feet of lawn in 15 minutes. At this rate, how many minutes will you take to mow a lawn that measures 6000 square feet?



*Part A* Write a proportion to represent the problem. Use  $m$  to represent the number of minutes. Explain your reasoning.

*Part B* Solve the proportion you wrote in Part A and use it to answer the problem. Show your work.

12. What number belongs in the box to make the equation true?

$$5\frac{7}{8} = \square \cdot \left(-\frac{1}{4}\right)$$

- A.  $-23\frac{1}{2}$   
B.  $-1\frac{15}{32}$   
C.  $6\frac{1}{8}$   
D.  $23\frac{1}{2}$