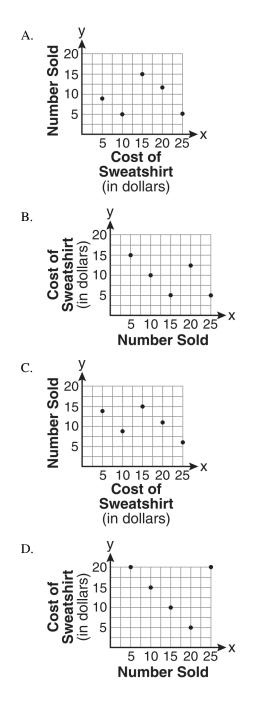
1. The school store did a study comparing the cost of a sweatshirt with the number of sweatshirts sold. The price was changed several times and the numbers of sweatshirts sold were recorded. The data are shown in the table below.

Cost of Sweatshirt	\$10	\$25	\$15	\$20	\$5
Number Sold	9	6	15	11	14

Which scatter plot best represents the data?

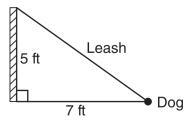


Date:

2. What is the solution of $3(2m-1) \le 4m+7$?

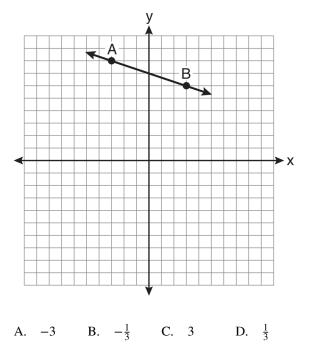
A. $m \le 5$ B. $m \ge 5$ C. $m \le 4$ D. $m \ge 4$

3. The end of a dog's leash is attached to the top of a 5-foot-tall fence post, as shown in the diagram below. The dog is 7 feet away from the base of the fence post.



How long is the leash, to the *nearest tenth of a foot*?

4. What is the slope of the line passing through the points *A* and *B*, as shown on the graph below?



- 5. The quotient of (9.2×10^6) and (2.3×10^2) expressed in scientific notation is
 - A. 4,000 B. 40,000
 - C. 4×10^3 D. 4×10^4
- 6. The width of a rectangle is 3 less than twice the length, *x*. If the area of the rectangle is 43 square feet, which equation can be used to find the length, in feet?
 - A. 2x(x-3) = 43 B. x(3-2x) = 43
 - C. 2x + 2(2x 3) = 43 D. x(2x 3) = 43

7. Which equation represents a line parallel to the *y*-axis?

A.
$$x = y$$
B. $x = 4$

C. $y = 4$
D. $y = x + 4$

- 8. Which point lies on the line whose equation is 2x 3y = 9?
 - A. (-1, -3) B. (-1, 3)
 - C. (0,3) D. (0,-3)
- 9. What is the value of the *y*-coordinate of the solution to the system of equations 2x + y = 8 and x 3y = -3

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

10. The probability that it will snow on Sunday is $\frac{3}{5}$. The probability that it will snow on both Sunday and Monday is $\frac{3}{10}$. What is the probability that it will snow on Monday, if it snowed on Sunday?

A. $\frac{9}{50}$ B. 2 C. $\frac{1}{2}$ D. $\frac{9}{10}$

11. What is an equation of the line that passes through the points (1, 3) and (8, 5)?

A. $y + 1 = \frac{2}{7}(x + 3)$ B. $y - 5 = \frac{2}{7}(x - 8)$ C. $y - 1 = \frac{2}{7}(x + 3)$ D. $y + 5 = \frac{2}{7}(x - 8)$

- 12. An example of an algebraic expression is
 - A. x + 2 B. y = x + 2
 - C. y < x + 2 D. $y = x^2 + 2x$
- 14. Joseph typed a 1,200-word essay in 25 minutes. At this rate, determine how many words he can type in 45 minutes.

15. Express $-3\sqrt{48}$ in simplest radical form.

13. Express in simplest form: $\frac{45a^4b^3 - 90a^3b}{15a2b}$

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1. Answer:	С	
2. Answer:	А	
3. Answer:	В	
4. Answer:	В	
5. Answer:	D	
6. Answer:	D	
7. Answer:	В	
8. Answer:	D	
9. Answer:	В	
10. Answer:	С	
11. Answer:	В	
12. Answer:	А	
13. Answer:	$3a^2b^2 - 6a$	
14. Answer:	2160	
15. Answer:	$-12\sqrt{3}$	

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