CRCT Quiz #6

Name: _____ **Date:** _____

1. A bag contains eight green marbles, five white marbles, and two red marbles. What is the probability of drawing a red marble from the bag?

   A. $\frac{1}{15}$ B. $\frac{2}{15}$ C. $\frac{2}{13}$ D. $\frac{13}{15}$

2. Julia went to the movies and bought one jumbo popcorn and two chocolate chip cookies for \$5.00. Marvin went to the same movie and bought one jumbo popcorn and four chocolate chip cookies for \$6.00. How much does one chocolate chip cookie cost?

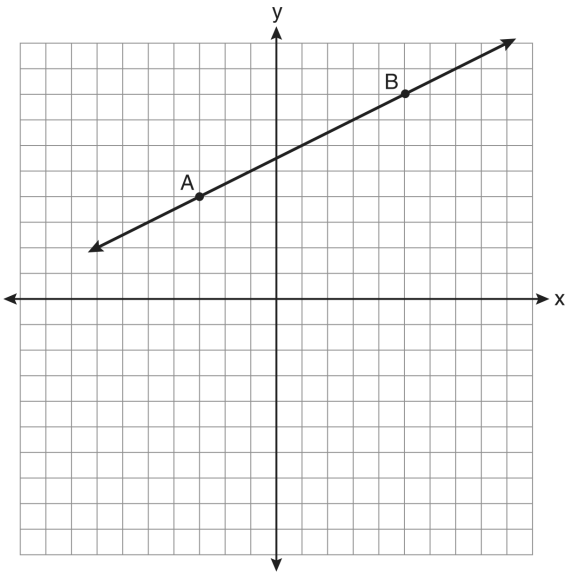
   A. \$0.50 B. \$0.75 C. \$1.00 D. \$2.00

3. Roger is having a picnic for 78 guests. He plans to serve each guest at least one hot dog. If each package, p, contains eight hot dogs, which inequality could be used to determine how many packages of hot dogs Roger will need to buy?

   A. $p \geq 78$ B. $8p \geq 78$

   C. $8 + p \geq 78$ D. $78 - p \geq 8$

4. In the diagram below, what is the slope of the line passing through points A and B?



   A. -2 B. 2 C. $-\frac{1}{2}$ D. $\frac{1}{2}$

5. Debbie solved the linear equation $3(x + 4) - 2 = 16$ as follows:

   [Line 1] $3(x + 4) - 2 = 16$

   [Line 2] $3(x + 4) = 18$

   [Line 3] $3x + 4 = 18$

   [Line 4] $3x = 14$

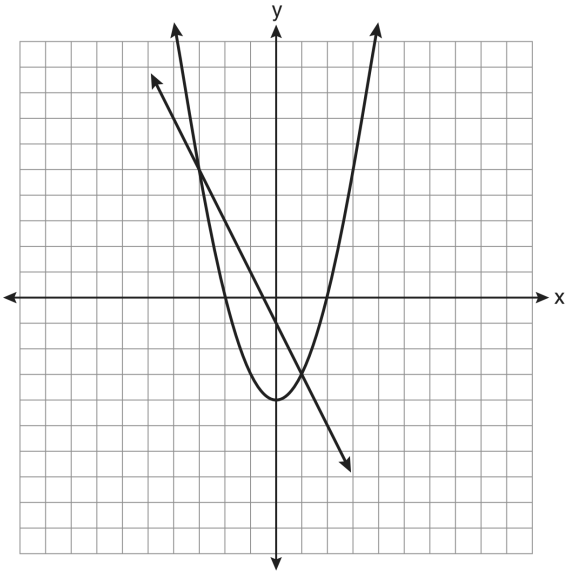
   [Line 5] $x = 4\frac{2}{3}$

   She made an error between lines

   A. 1 and 2 B. 2 and 3

   C. 3 and 4 D. 4 and 5

6. Which ordered pair is a solution of the system of equations shown in the graph below?



A. $(-3, 1)$ B. $(-3, 5)$

C. $(0, -1)$ D. $(0, -4)$

7. Which equation represents the line that passes through the points $(-3, 7)$ and $(3, 3)$?

A. $y = \frac{2}{3}x + 1$ B. $y = \frac{2}{3}x + 9$

C. $y = -\frac{2}{3}x + 5$ D. $y = -\frac{2}{3}x + 9$

8. The members of the senior class are planning a dance. They use the equation $r = pn$ to determine the total receipts. What is n expressed in terms of r and p?

A. $n = r + p$ B. $n = r - p$

C. $n = \frac{P}{r}$ D. $n = \frac{r}{p}$

9. Which relation represents a function?

A. $\{(0, 3), (2, 4), (0, 6)\}$

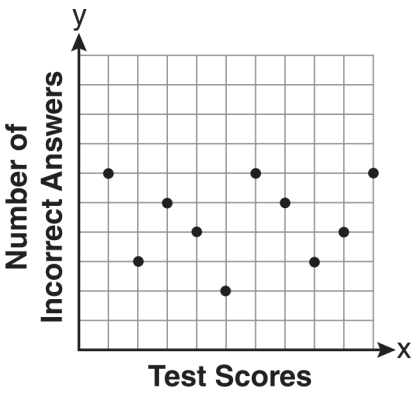
B. $\{(-7, 5), (-7, 1), (-10, 3), (-4, 3)\}$

C. $\{(2, 0), (6, 2), (6, -2)\}$

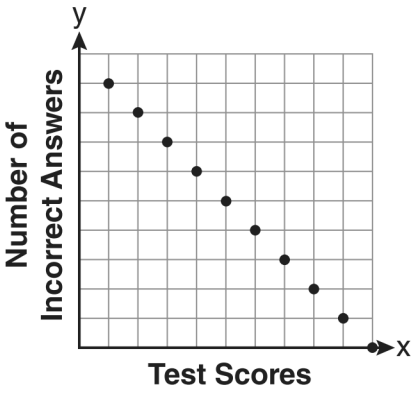
D. $\{(-6, 5), (-3, 2), (1, 2), (6, 5)\}$

10. Which scatter plot shows the relationship between x and y if x represents a student score on a test and y represents the number of incorrect answers a student received on the same test?

A.

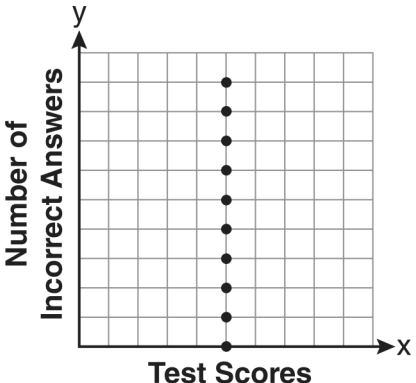


B.



C.

D.



11. Which expression is equivalent to $3^3 \cdot 3^4$?

A. 9^{12} B. 9^7 C. 3^{12} D. 3^7

12. Which point is on the line $4y - 2x = 0$?

A. $(-2, -1)$ B. $(-2, 1)$

C. $(-1, -2)$ D. $(1, 2)$

13. The expression $6\sqrt{50} + 6\sqrt{2}$ written in simplest radical form is

A. $6\sqrt{52}$ B. $12\sqrt{52}$

C. $17\sqrt{2}$ D. $36\sqrt{2}$

14. Which equation represents a line parallel to the graph of $2x - 4y = 16$?

A. $y = \frac{1}{2}x - 5$ B. $y = -\frac{1}{2}x + 4$

C. $y = -2x + 6$ D. $y = 2x + 8$

15. An example of an algebraic expression is

A. $\frac{2x+3}{7} = \frac{13}{x}$ B. $(2x + 1)(x - 7)$

C. $4x - 1 = 4$ D. $x = 2$

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1.
Answer: B

2.
Answer: A

3.
Answer: B

4.
Answer: D

5.
Answer: B

6.
Answer: B

7.
Answer: C

8.
Answer: D

9.
Answer: D

10.
Answer: B

11.
Answer: D

12.
Answer: A

13.
Answer: D

14.
Answer: A

15.
Answer: B