Name:

Date:

- What is $2\sqrt{45}$ expressed in simplest radical form? 1.
 - A. $3\sqrt{5}$
- B. $5\sqrt{5}$
 - C. $6\sqrt{5}$
- D. $18\sqrt{5}$
- Timmy bought a skateboard and two helmets for a 2. total of d dollars. If each helmet cost h dollars, the cost of the skateboard could be represented by
 - A. 2*dh*
- C. d-2h
- D. $d-\frac{h}{2}$
- Byron is 3 years older than Doug. The product of their ages is 40. How old is Doug?
 - A. 10
- B. 8
- C. 5
- D. 4
- Three fair coins are tossed. What is the probability that two heads and one tail appear?
- B. $\frac{3}{8}$ C. $\frac{3}{6}$
- D. $\frac{2}{3}$
- What is the sum of $-3x^2 7x + 9$ and $-5x^2 + 6x - 4$?
 - A. $-8x^2 x + 5$ B. $-8x^4 x + 5$

 - C. $-8x^2 13x + 13$ D. $-8x^4 13x^2 + 13$

- What is the slope of the line that passes through the points (2, -3) and (5, 1)?
 - A. $-\frac{2}{3}$ B. $\frac{2}{3}$ C. $-\frac{4}{3}$ D. $\frac{4}{3}$

- The expression $\frac{(4x^3)^2}{2x}$ is equivalent to
- A. $4x^4$ B. $4x^5$ C. $8x^4$
- D. $8x^{5}$
- Which point lies on the graph represented by the equation 3y + 2x = 8?
 - A. (-2,7)
- B. (0,4)
- C. (2,4)
- D. (7, -2)
- Mr. Stanton asked his students to write an algebraic expression on a piece of paper. He chose four students to go to the board and write their expression.

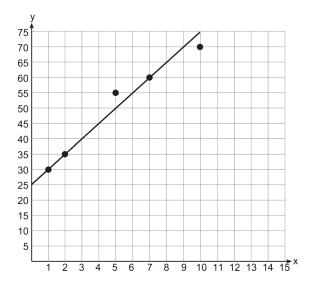
Robert wrote: $4(2x + 5) \ge 17$ Meredith wrote: 3y - 7 + 11zSteven wrote: 9w + 2 = 20Cynthia wrote: 8 + 10 - 4 = 14

Which student wrote an algebraic expression?

- Robert
- B. Meredith
- C. Steven
- D. Cynthia

- 10. If $s = \frac{2x+t}{r}$, then x equals

 - A. $\frac{rs t}{2}$ B. $\frac{rs + 1}{2}$
 - C. 2rs t
- D. rs 2t
- 11. A scatter plot was constructed on the graph below and a line of best fit was drawn.



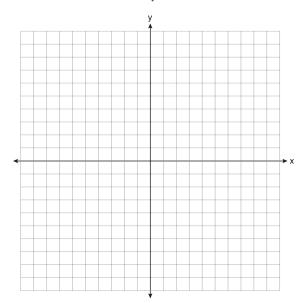
What is the equation of this line of best fit?

- A. y = x + 5
- B. y = x + 25
- C. y = 5x + 5
- D. y = 5x + 25
- 12. Solve algebraically for x: $2(x-4) \ge \frac{1}{2}(5-3x)$

13. On the set of axes below, solve the following system of equations graphically. State the coordinates of the solution.

$$y = 4x - 1$$

$$2x + y = 5$$



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CRCT Quiz #11 01/21/2013

1.

Answer: C

2.

Answer: C

3.

Answer: C

4.

Answer: B

5.

Answer: A

6.

Answer: D

7.

Answer: D

8.

Answer: D

9.

Answer: B

10.

Answer: A

11.

Answer: D

12.

Answer: $x \ge 3$

13.

Answer: Correct graphs are drawn, and at least

one is labeled, and (1, 3) or x = 1,

y = 3 is stated.