## CRCT Quiz \#11

Name: $\qquad$ Date: $\qquad$

1. What is $2 \sqrt{45}$ expressed in simplest radical form?
A. $3 \sqrt{5}$
B. $5 \sqrt{5}$
C. $6 \sqrt{5}$
D. $18 \sqrt{5}$
2. Timmy bought a skateboard and two helmets for a total of $d$ dollars. If each helmet cost $h$ dollars, the cost of the skateboard could be represented by
A. $2 d h$
B. $\frac{d h}{2}$
C. $d-2 h$
D. $d-\frac{h}{2}$
3. 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
4. Three fair coins are tossed. What is the probability that two heads and one tail appear?
A. $\frac{1}{8}$
B. $\frac{3}{8}$
C. $\frac{3}{6}$
D. $\frac{2}{3}$
5. What is the sum of $-3 x^{2}-7 x+9$ and $-5 x^{2}+6 x-4 ?$
A. $-8 x^{2}-x+5$
B. $-8 x^{4}-x+5$
C. $-8 x^{2}-13 x+13$
D. $-8 x^{4}-13 x^{2}+13$
6. 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. $\frac{4}{3}$
7. The expression $\frac{\left(4 x^{3}\right)^{2}}{2 x}$ is equivalent to
A. $4 x^{4}$
B. $4 x^{5}$
C. $8 x^{4}$
D. $8 x^{5}$
8. Which point lies on the graph represented by the equation $3 y+2 x=8$ ?
A. $(-2,7)$
B. $(0,4)$
C. $(2,4)$
D. $(7,-2)$
9. 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: $4(2 x+5) \geq 17$
Meredith wrote: $3 y-7+11 z$
Steven wrote: $9 w+2=20$
Cynthia wrote: $8+10-4=14$
Which student wrote an algebraic expression?
A. Robert
B. Meredith
C. Steven
D. Cynthia

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10. If $s=\frac{2 x+t}{r}$, then $x$ equals
A. $\frac{r s-t}{2}$
B. $\frac{r s+1}{2}$
C. $2 r s-t$
D. $r s-2 t$
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. $y=5 x+5$
D. $y=5 x+25$
12. Solve algebraically for $x$ : $2(x-4) \geq \frac{1}{2}(5-3 x)$

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1.

Answer: C
2.

Answer: $\quad$ C
3.

Answer: $\quad$ 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: $\quad x \geq 3$
13.

Answer: $\quad$ Correct graphs are drawn, and at least one is labeled, and $(1,3)$ or $x=1$, $y=3$ is stated.

