

Chapter 4 Test, Form 2A

SCORE _____

Write the letter for the correct answer in the blank at the right of each question.

1. What is the slope-intercept form of the equation of a line with a slope of 5 and a y -intercept of -8 ?

A $y = -8x + 5$ B $y = 8x - 5$ C $5x - y = -8$ D $y = 5x - 8$

1. _____

2. Which equation is graphed at the right?

F $2y - x = 10$ H $2x - y = 5$
 G $2x + y = -5$ J $2y + x = -5$



2. _____

3. Which is an equation of the line that passes through $(2, -5)$ and $(6, 3)$?

A $y = \frac{1}{2}x - 6$ C $y = 2x + 12$

B $y = \frac{1}{2}x$ D $y = 2x - 9$

3. _____

4. What is an equation of the line through $(0, -3)$ with slope $\frac{2}{5}$?

F $-5x + 2y = 15$ H $2x - 5y = 15$
 G $-5x - 2y = -15$ J $-2x + 5y = 15$

4. _____

5. Which is an equation of the line with slope -3 and a y -intercept of 5 ?

A $y = -3(x + 5)$ B $y - 5 = -3x$ C $-3x + y = 5$ D $y = 5x - 3$

5. _____

6. What is the equation of the line through $(-2, -3)$ with a slope of 0 ?

F $x = -2$ G $y = -3$ H $-2x - 3y = 0$ J $-3x + 2y = 0$

6. _____

7. Find the slope-intercept form of the equation of the line that passes through $(-5, 3)$ and is parallel to $12x - 3y = 10$.

A $y = -4x - 17$ B $y = 4x - 13$ C $y = -4x + 13$ D $y = 4x + 23$

7. _____

8. If line q has a slope of $-\frac{2}{8}$, what is the slope of any line perpendicular to q ?

F $-\frac{2}{8}$ G $\frac{2}{8}$ H $\frac{8}{2}$ J $-\frac{8}{2}$

8. _____

9. A line of fit might be defined as

A a line that connects all the data points.
 B a line that might best estimate the data and be used for predicting values.
 C a vertical line halfway through the data.
 D a line that has a slope greater than 1.

9. _____

10. A scatter plot of data comparing the number of years since Holbrook High School introduced a math club and the number of students participating contains the ordered pairs $(3, 19)$ and $(8, 42)$. Which is the slope-intercept form of an equation for the line of fit containing those points?

F $y = 4.6x + 5.2$ G $y = 3x + 1$
 H $y = 5.2x + 4.6$ J $y = 0.22x - 1.13$

10. _____

11. Use the equation from Question 10 to estimate the number of students who will be in the math club during the 15th year.

A 53 B 61 C 65 D 74

11. _____

Chapter 4 Test Form A Answer Key

DJ Losen



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