NAME _____ DATE _____ PERIOD _____

Test, Form 1A

SCORE _____

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

1. What is the constant rate of change between the values of x and y in the table?

x	1	5	9	13
y	−6	−3	0	3

A. $-\frac{4}{3}$ **B.** $-\frac{3}{4}$ **C.** $\frac{3}{4}$ **D.** $\frac{4}{3}$ **1.** C

2. What is the slope of the line that passes through the points $A(-2, -1)$ and $D(3, 5)$?

F. $\frac{6}{5}$ **G.** $\frac{5}{6}$ **H.** $-\frac{5}{6}$ **I.** $-\frac{6}{5}$ **2.** F

3. What are three numbers that have a sum of 35 if the greatest number is 14 more than the least number?

A. 6, 7, 20 **B.** 5, 11, 19 **C.** 10, 11, 24 **D.** 1, 15, 15 **3.** B

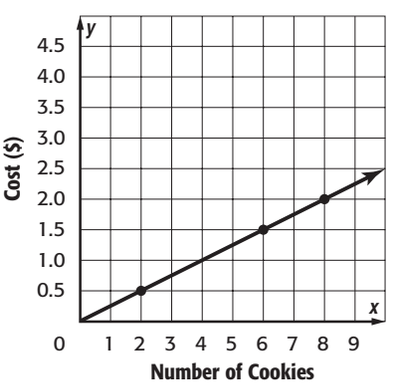
4. The costs of cookies at store A are shown in the graph. The cost y for x cookies at store B is represented by the equation $y = 0.30x$. Which of the following statements is true?

F. The cookies at store A cost more.

G. The cookies at store A cost \$0.50 each.

H. The cookies at store B cost \$0.15 each

I. The cookies at store B cost more.



4. I

5. What are the slope and y-intercept for the graph of $y - 7x = 10$?

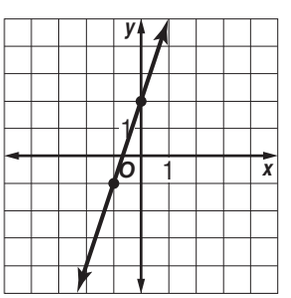
A. slope: 7, y-intercept: 10 **C.** slope: −7, y-intercept: 10

B. slope: 7, y-intercept: −10 **D.** slope: −7, y-intercept: −10 **5.** A

6. Which is the equation in slope-intercept form for the graph of the line shown?

F. $y = -3x - 2$ **H.** $y = 3x - 2$

G. $y = -3x + 2$ **I.** $y = 3x + 2$



6. I

NAME _____ DATE _____ PERIOD _____

Test, Form 1A *(continued)*

SCORE _____

7. David is having his birthday party at a water park. The park charges \$150 plus \$10 per guest. The total cost of the party y can be represented by the equation $y = 10x + 150$. What does the slope represent?

A. the number of guests

B. the cost to rent the water park

C. the cost per guest

D. David's age

7. C

8. Which equation, in point-slope form, passes through $(3, -1)$ and has a slope of 2?

F. $y + 1 = 2(x - 3)$ **H.** $y + 1 = 2(x + 3)$

G. $y - 1 = 2(x + 3)$ **I.** $y - 1 = 2(x - 3)$

8. F

9. What are the x- and y-intercepts for the graph of $2x - 5y = 10$?

A. x-intercept: -5, y-intercept: 2

B. x-intercept: -5, y-intercept: -2

C. x-intercept: 5, y-intercept: -2

D. x-intercept: 5, y-intercept: 2

9. C

10. Xavier has \$20 more than Sara. Their combined money totals \$90. Which system of equations represents this situation?

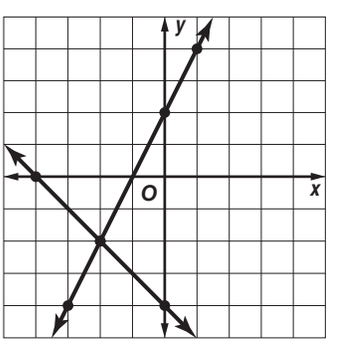
F. $x + s = 90$, $s + x = 20$ **G.** $x + s = 90$, $x - s = 20$ **H.** $x - s = 90$, $s + s = 20$ **I.** $s - x = 90$, $x - s = 20$

10. G

11. Which of the following is the solution of the system of equations shown?

A. (2, 2) **C.** (2, −2)

B. (−2, 2) **D.** (−2, −2)



11. D

12. What is the solution of the system of equations?

$y = x - 4$

$y = -3x$

F. (3, −1) **G.** (−3, 1) **H.** (−1, 3) **I.** (1, −3)

12. I

13. What is the solution of the system of equations?

$y = x - 10$

$y = 2x + 5$

A. (15, 25) **B.** (15, −25) **C.** (−15, −25) **D.** (−15, 25)

13. C