

TEST NAME: **jan 10 math 8**
TEST ID: **2788453**
GRADE: **08 - Eighth Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **School Assessment**

Student: _____

Class: _____

Date: _____

1. At a pizza restaurant, a large cheese pizza costs \$8.99, plus \$1.25 per topping. If Laura paid \$13.99 for a large pizza before taxes, how many toppings did Laura put on her pizza?
 - A. 3
 - B. 4
 - C. 5
 - D. 6

2. Which of the following equations has a slope of -2 and passes through the point $(3, -4)$?
 - A. $y = -2x - 2$
 - B. $y = -2x + 2$
 - C. $y = -2x + 10$
 - D. $y = -2x - 10$

3. Which table of values is a linear function?

A.

x	y
-1	1
0	0
1	1

B.

x	y
1	1
2	4
3	9

C.

x	y
-1	1
2	4
5	7

D.

x	y
0	0
3	2
5	4

4. What is the equation of the line with a slope of -6 and an x -intercept of -4 ?

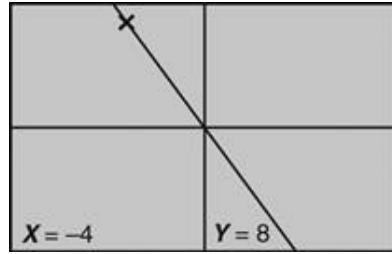
A. $y = -6x - 4$

B. $y = -6x + 4$

C. $y = -6x - 24$

D. $y = -6x + 24$

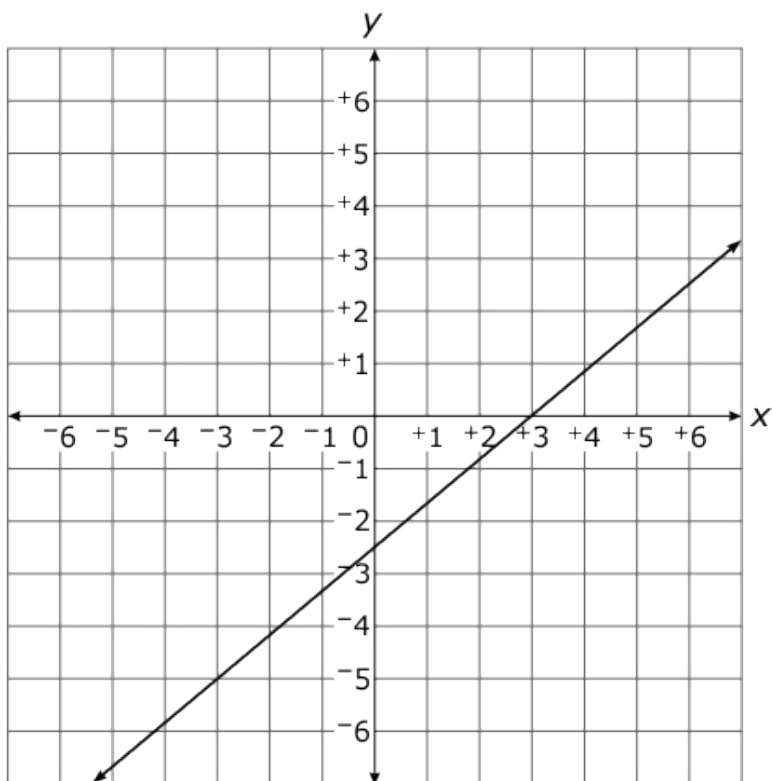
5. The figure below shows a graph on a calculator screen. The graph passes through the origin, and the value of one point on the graph is displayed on the screen.



For each increase of 1 unit in x , what is the change in y ?

- A. -2
- B. -1
- C. 2
- D. 4

6. Which is an equation of the line shown on the graph below?



- A. $y = \frac{6}{5}x - \frac{5}{2}$
- B. $y = \frac{6}{5}x - \frac{18}{5}$
- C. $y = \frac{5}{6}x - \frac{5}{2}$
- D. $y = \frac{5}{6}x - \frac{18}{5}$

7. In the table, the profit (p) is a function of the number of shirts sold (n) at a store.

Shirt Sales

Number of Shirts Sold (n)	Profit (p)
1	\$6
2	\$10
3	\$14
4	\$18

Which equation describes the relationship between n and p ?

- A. $p = n + 5$
- B. $p = 4n + 2$
- C. $p = 6n$
- D. $p = 8n - 2$

8. Which equation represents the line that passes through the point $(-2, 5)$ and has a slope of -3 ?

- A. $y = -3x - 13$
- B. $y = -3x - 1$
- C. $y = -3x + 1$
- D. $y = -3x + 13$

9. Function 1 and function 2 can be represented by the description and the table shown below.

Function 1: Mike bought a computer for \$1,100, and the computer's value depreciates by \$400 each year.

Function 2: Cathy deposits \$650 in a new checking account. Each week after that, the amount in her account changes according to the table below, in which y represents the total amount in the checking account as a function of the number of weeks, x .

x	y
1	700
2	750
3	800
4	850

Which statement is **true** of functions 1 and 2?

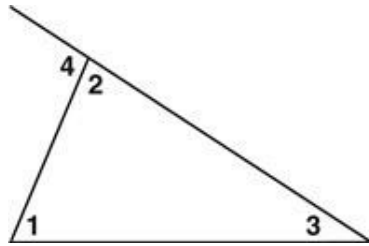
- A. Functions 1 and 2 both have positive slopes, but the y -intercept of function 1 is larger than that of function 2.
- B. Functions 1 and 2 both have negative slopes, but the y -intercept of function 1 is smaller than that of function 2.
- C. Function 1 has a positive slope and a smaller y -intercept, while function 2 has a negative slope and a larger y -intercept.
- D. Function 1 has a negative slope and a larger y -intercept, while function 2 has a positive slope and a smaller y -intercept.

10. The table below shows the cost of a large scoop of ice cream with toppings at an ice cream shop.

Number of Toppings	Cost
3	\$4.06
4	\$4.65
6	\$5.83

What is the cost of a large scoop of ice cream with no toppings?

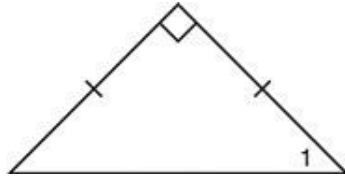
- A. \$3.47
 - B. \$2.29
 - C. \$1.35
 - D. \$0.59
11. In the figure below, Angles 1 and 2 are congruent.



If $m \angle 1 = 70^\circ$, what is the sum of Angles 3 and 4?

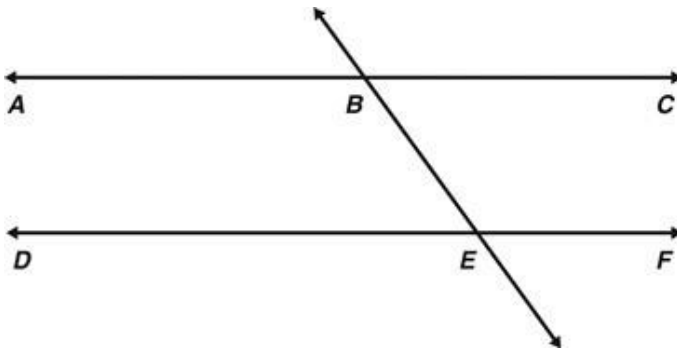
- A. 110°
- B. 140°
- C. 150°
- D. 180°

12. What is the measure of $\angle 1$ in this isosceles right triangle?



- A. 30°
- B. 45°
- C. 60°
- D. 90°

13. If $\overline{AC} \parallel \overline{DF}$ and the $m\angle CBE = 54^\circ$, what is the $m\angle ABE$?

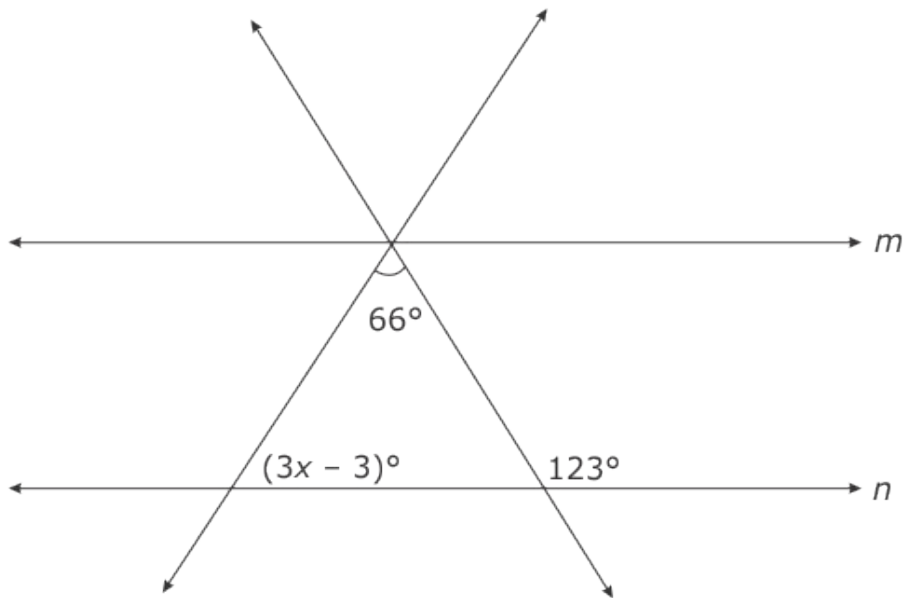


- A. 36°
- B. 54°
- C. 126°
- D. 306°

14. Triangle HIJ was rotated 90° counterclockwise about the origin. The image points of triangle HIJ are $H'(-8, -2)$, $I'(-4, 3)$, and $J'(-1, -4)$. What are the coordinates of the pre-image point H ?

- A. $(-8, 2)$
- B. $(-2, 8)$
- C. $(2, -8)$
- D. $(8, -2)$

15. In the figure below, lines m and n are parallel.



- A. 20
- B. 23
- C. 40
- D. 42