



## Coordinate Algebra EOC (GSE) Quiz Answer Key

Functions - (MCQ)(14-1, 2, F, SF, L, ) Write A Function

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

Teacher Name: THIRYNCK, DWG

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11) The cost of tuition at Johnson Community College is \$668 per credit hour. Each student also has to pay \$50 in fees. Model the cost,  $C$ , for a credit hours taken.

- A)  $C(x) = 50x$
- B)  $C(x) = 668x$
- C)  $C(x) = 110x$
- D)  $C(x) = 668x + 50$

Explanation:

$C(x) = 668x + 50$  is correct, since the \$50 cost is fixed, but the \$160 cost increases as  $x$  increases.

12) Caddy pays \$15 a month plus \$0.05 per text message. She models this with the function  $C = 0.05x + 15$ . If the text messaging fee increases to \$0.20, what is her new function?

- A)  $C = 20x + 15$
- B)  $C = 0.05x + 25$
- C)  $C = 0.20x + 0.05$
- D)  $C = 0.25x + 0.15$

Explanation:

The monthly fee is the y-intercept and the text messaging fee is the slope. The correct answer is  $C = 0.20x + 15$ .

13) The cost, in dollars, of a one-day car rental is given by  $C(x) = 30 + 0.18x$ , where  $x$  is the number of miles driven. In this function,

- A) \$0.18 is the cost per day to rent the car and \$30 is the cost per mile.
- B) \$30 is the cost per day to rent the car and \$0.18 is the cost per mile.
- C) \$18 is the cost per day to rent the car and \$0.30 is the cost per mile.
- D) \$30 is the cost per day to rent the car and \$18 is the extra cost for additional miles.

Explanation:

\$30 is the cost per day to rent the car and \$0.18 is the cost per mile. The \$18 cost is fixed, then 30 cents is added for each mile driven.

14)

Gary is 3 years older than twice the age of his sister (Lorel). \_\_\_\_\_.

Which shows an equation for this situation?

- A)  $G = 4L$
- B)  $G = 2L + 3$
- C)  $L = 2G + 3$
- D)  $G = 3L + 3$

Explanation:

We do not know his current age so we give that the variable  $G$ . His sister will be  $L$ , twice the age of his sister is  $2L$ , add to that 3 years and get the equation  $G = 2L + 3$

# Usa Test Prep Science Answer Key

**Xiaolong Qi**



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