



Coordinate Algebra EOC (GSE) Quiz Answer Key

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

Student Name: _____

Date: _____

Teacher Name: TERRYNGER, DWD

Score: _____

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 18 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 $G = 2L + 3$.

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Table of Contents Usa Test Prep Miduim Test Answer Key

1. Understanding the eBook Usa Test Prep Miduim Test Answer Key
 - The Rise of Digital Reading Usa Test Prep Miduim Test Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Usa Test Prep Miduim Test Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Usa Test Prep Miduim Test Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Usa Test Prep Miduim Test Answer Key
 - Personalized Recommendations
 - Usa Test Prep Miduim Test Answer Key User Reviews and Ratings
 - Usa Test Prep Miduim Test Answer Key and Bestseller Lists
5. Accessing Usa Test Prep Miduim Test Answer Key Free and Paid eBooks
 - Usa Test Prep Miduim Test Answer Key Public Domain eBooks
 - Usa Test Prep Miduim Test Answer Key eBook Subscription Services
 - Usa Test Prep Miduim Test Answer Key Budget-Friendly Options

6. Navigating Usa Test Prep Miduim Test Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Usa Test Prep Miduim Test Answer Key Compatibility with Devices
 - Usa Test Prep Miduim Test Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Usa Test Prep Miduim Test Answer Key
 - Highlighting and Note-Taking Usa Test Prep Miduim Test Answer Key
 - Interactive Elements Usa Test Prep Miduim Test Answer Key
8. Staying Engaged with Usa Test Prep Miduim Test Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Usa Test Prep Miduim Test Answer Key
9. Balancing eBooks and Physical Books Usa Test Prep Miduim Test Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Usa Test Prep Miduim Test Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Usa Test Prep Miduim Test Answer Key
 - Setting Reading Goals Usa Test Prep Miduim Test Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Usa Test Prep Miduim Test Answer Key
 - Fact-Checking eBook Content of Usa Test Prep Miduim Test Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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