## Interpret Function Notation in Real World Scenarios

Name\_\_\_\_\_ Period:\_\_\_\_\_ Date:\_\_\_\_\_

## Directions: Use the information given to solve each problem.

1. Let g(x) = 12x + 50 represent the revenue function, where x is the number of concert tickets sold. Which statement is true of g(100)?

A. It results in 1,250 and means that \$1,250 was earned in revenue.

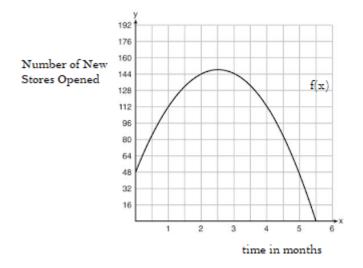
B. It results in 1,250 and means that 1,250 tickets were sold.

C. It results in 1,200 and means that \$1,200 was earned in revenue.

D. It results in 1,200 and means that 1,200 tickets were sold.

- **2.** Let h(x) = 8x 20 represent the cost function for producing x units of a product. Which statement is true of h(50)?
  - A. It results in 380 and means that \$380 is the total cost of production.
  - B. It results in 380 and means that 380 units were produced.
  - C. It results in 400 and means that \$400 is the total cost of production.
  - D. It results in 400 and means that 400 units were produced.
- 3. Let q(x) = 5x 15 represent the profit function for selling x pastries. What does the 25 in q(25) represent?
  - A. It represents the profit made from selling pastries.
  - B. It represents the cost of producing pastries.
  - C. It represents the number of pastries sold.
  - D. It represents the price of one pastry.

- **4.** Let r(x) = 20x + 200 represent the total revenue function for x subscriptions sold. What does the 150 in r(150) represent?
  - A. It represents the total revenue earned.
  - B. It represents the number of subscriptions sold.
  - C. It represents the cost of each subscription.
  - D. It represents the profit from selling subscriptions.
- 5. The graph below shows the function f(x). This function represents the number of new stores opened in city over a period of six months. Explain what does f(3) represents.



- A. There will be 0 new stores opened during month 48.
- B. There will be 48 new stores opened during month 3.
- C. There will be 3 new stores opened during month 144.
- D. There will be 144 new stores opened during month 3.

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## Answer Key

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

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