

5. Keyshawn buys 100 baseball cards to start a collection. He purchases 25 more baseball cards each week. Which equation could be used to represent the number of baseball cards ( $b$ ) in Keyshawn's collection after  $w$  weeks?

- A.  $w = 25b + 100$
- B.  $w = 100b + 25$
- C.  $b = 25w + 100$
- D.  $b = 100w + 25$

7. The ordered pairs shown below are on the same line.

$$(6, 4) \quad (12, 6)$$

Which equation describes the relationship between the  $x$ -coordinates and  $y$ -coordinates in the ordered pairs?

- A.  $y = 3x - 14$
- B.  $y = 3x - 6$
- C.  $y = \frac{1}{3}x + 10$
- D.  $y = \frac{1}{3}x + 2$

## CONSTRUCTED-RESPONSE ITEM

14. There was a layer of snow on Joe's driveway when it began to snow again. As the snow fell, Joe measured the depth, in centimeters (cm), of snow on his driveway. After 10 minutes, he measured 2.0 cm of snow on the driveway. After 30 minutes, the snow was 3.6 cm deep. The snow continued to fall at the same constant rate. Joe graphed a line to represent the snowfall.

A. What should be the slope of Joe's line?

B. Explain what the slope means in this situation.

**Go to the next page to finish question 14.**

14. **Continued.** Please refer to the previous page for task explanation.

C. Write the equation for Joe's line.

D. How many minutes should it take for the depth of the snow to reach 8 cm?