

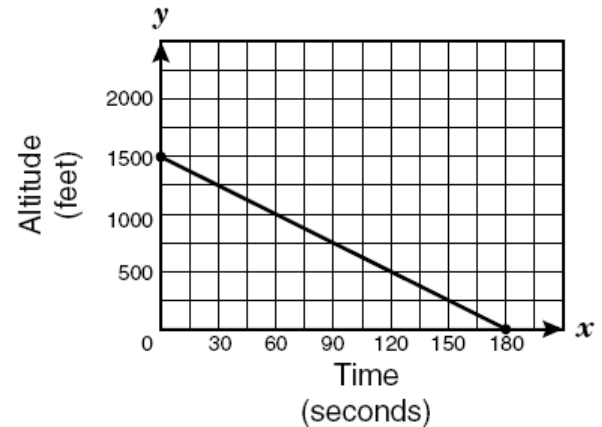
Name _____

Date _____

Reporting Category 3 (A.6.B.)

1. The line segment on the graph shows the altitude of a landing airplane from the time its wheels are lowered to the time it touches the ground. Which of the following best describes the slope of the line segment?

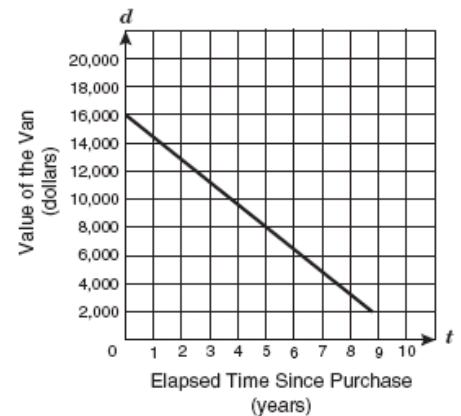
- F The plane descends about 1 foot per 8 seconds.
- G The plane descends about 8 feet per second.
- H The plane descends about 1 foot per 2 seconds.
- J The plane descends about 2 feet per second.



2. A small business purchased a van to handle its delivery orders. The graph below shows the value of this van over a period of time.

Which of the following best describes this situation?

- A The van was purchased for \$1,600.
- B The van decreases in value by \$1,600 per year.
- C The van increases in value by \$1,600 per year.
- D The van has no value after 5 years.



3. The cost of renting a car for 1 day at Cars Plus is \$20 plus 10 cents per mile driven. The cost of renting a car for 1 day at Need-A-Car is \$20 plus 15 cents per mile driven. In a graph of the cost of a car rental, what does the cost per mile driven represent?

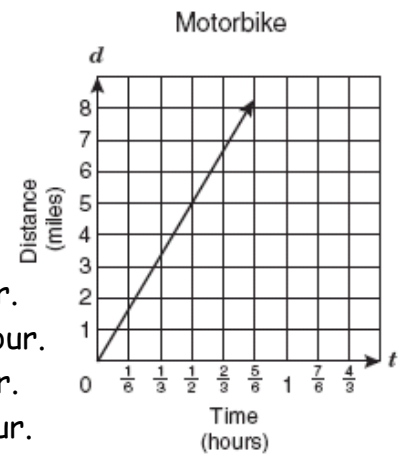
- A The x -intercept
- B The y -intercept
- C The slope
- D The point of intersection

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4. The graph shows the distance a certain motorbike can travel at a constant speed with respect to time.

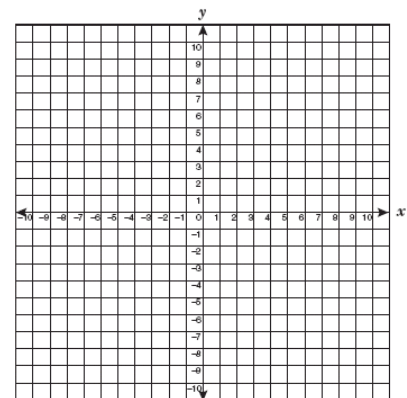


Which of the following best describes the meaning of the slope of the line representing this situation?

- F The motorbike travels at a speed of about 8 miles per hour.
- G The motorbike travels at a speed of about 2.5 miles per hour.
- H The motorbike travels at a speed of about 5 miles per hour.
- J The motorbike travels at a speed of about 10 miles per hour.

5. What are the slope and y -intercept of a line that contains the point $(5, -1)$ and has the same y -intercept as $x - 3y = 6$?

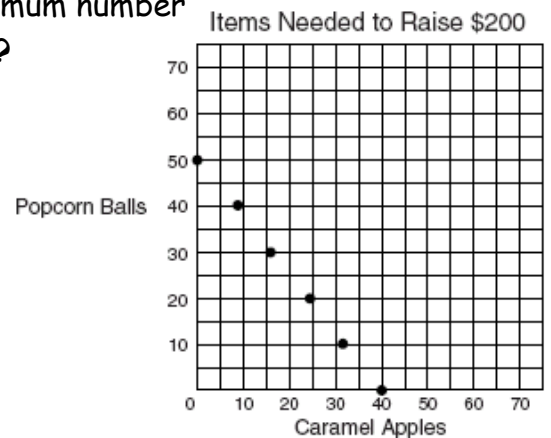
- A $m = \frac{1}{3}$
 $b = 6$
- B $m = 5$
 $b = -2$
- C $m = \frac{1}{5}$
 $b = -2$
- D $m = 3$
 $b = 6$



6. The graph below shows the number of caramel apples and the number of popcorn balls that the students in the math club need to sell at their bake sale to raise \$200.

Which of the following numbers represents the maximum number of caramel-apple sales needed to raise exactly \$200?

- A 50
- B 40
- C 25
- D 20



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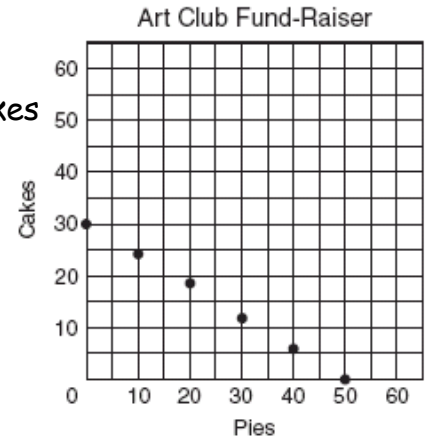
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Reporting Category 3 (A.6.B.)

7. The graph below shows the number of pies and the number of cakes that the students in the art club need to sell at the school bake sale in order to raise \$150.

Which of the following represents the maximum number of cakes the art club could sell to raise exactly \$150?

- F 40
- G 25
- H 50
- J 30



8. Some employees of Ace Corporation left their office building and drove separately on the same road to a convention. The graph shows the distance traveled by each employee after 5 hours of nonstop driving at 4 different speeds.

Which employee drove at the slowest rate to the convention?

- A Mr. Able
- B Ms. Ruiz
- C Ms. Woo
- D Mr. Hill

