



Louisiana Believes

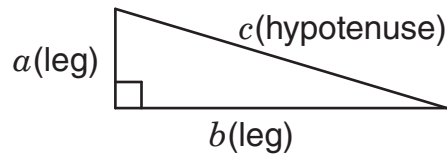
**LEAP Test Items**  
**Grade Mathematics**  
**Spring 2014**

Released June 2014

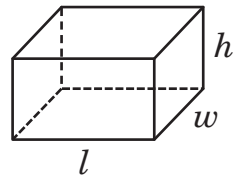
# LEAP MATHEMATICS REFERENCE SHEET — GRADE 8

Use the information below to answer questions on the Mathematics test.

**Pythagorean Theorem:**  $a^2 + b^2 = c^2$



**Rectangular Prism**

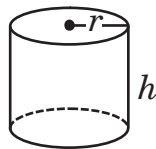


$$\text{Volume} = lwh$$

Surface

$$\text{Area} = 2wl + 2lh + 2wh$$

**Cylinder**



$$\text{Volume} = \pi r^2 h$$

Surface

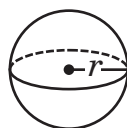
$$\text{Area} = 2\pi r^2 + 2\pi rh$$

**Cone**



$$\text{Volume} = \frac{1}{3} \pi r^2 h$$

**Sphere**



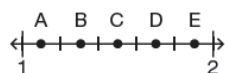
$$\text{Volume} = \frac{4}{3} \pi r^3$$

An ant colony has approximately  $3 \times 10^6$  ants. Which could be the actual number of ants in the colony?

- A. 3,106
- B. 29,069
- C. 296,423
- D. 3,059,101

This item measures aspects of 8.EE.3  
No Calculator  
Key: D

Use the number line below to answer question



Between which two points does  $\sqrt{2}$  lie?

- A. A and B
- B. B and C
- C. C and D
- D. D and E

This item measures aspects of 8.NS.2

No Calculator

Key: B

Use the coordinate plane below to answer question

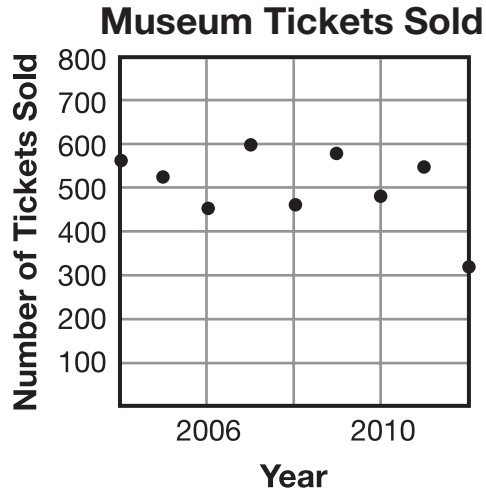


Which could be an equation for the line drawn?

- A.  $y = 3x + 5$
- B.  $y = 3x - 5$
- C.  $y = -3x + 5$
- D.  $y = -3x - 5$

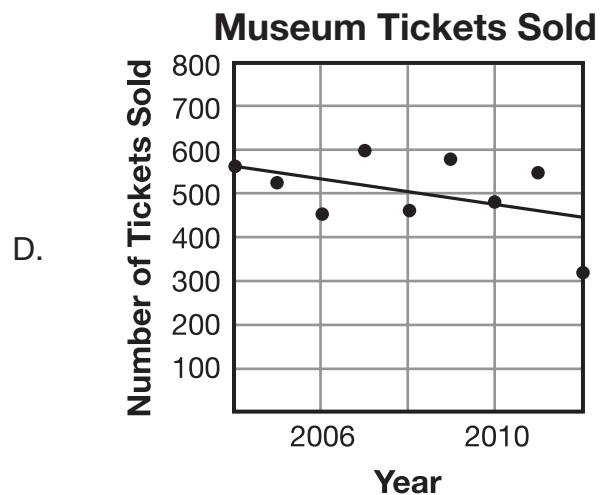
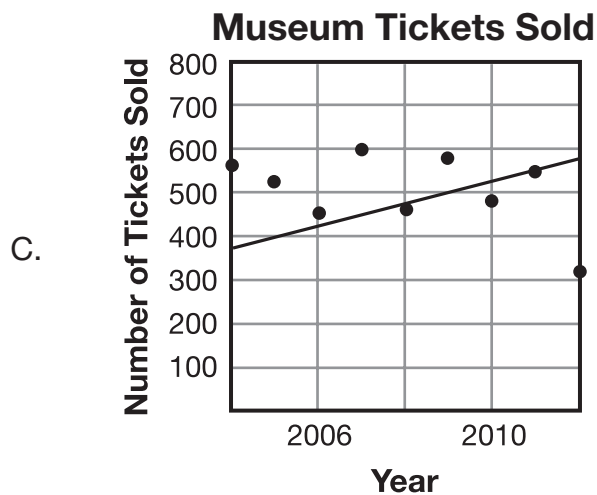
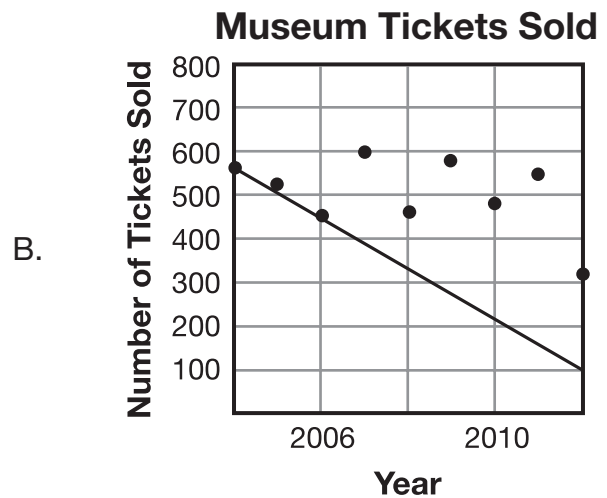
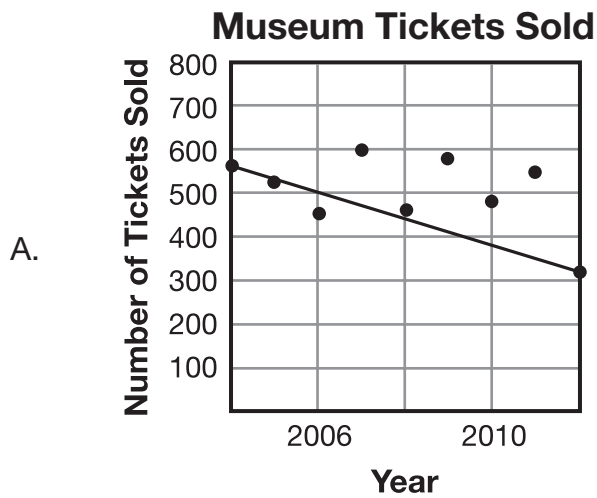
This item measures aspects of 8.EE.6  
No Calculator  
Key: D

The scatter plot shows the number of tickets sold for an art museum each year from 2004 to 2012.



This item measures aspects of 8.SP.2  
No Calculator  
Key: D

Which graph shows the **best** linear approximation of the data in the scatter plot?



Willie is thinking of a rational square root. Which square root could Willie be thinking of?

- A.  $\sqrt{6}$
- B.  $\sqrt{7}$
- C.  $\sqrt{9}$
- D.  $\sqrt{11}$

This item measures aspects of 8.EE.2  
No Calculator  
Key: C

For  $x$  days, each of  $x$  friends brought  $x$  cans of food for a food drive. At the end of the food drive they brought a total of 64 cans of food. The number of days, friends, and cans of food brought each day by each friend can all be found by solving the equation below.

$$x^3 = 64$$

How many cans of food were brought each day by each friend,  $x$ ?

- A. 4 cans
- B. 8 cans
- C. 21 cans
- D. 132 cans

This item measures aspects of 8.EE.2 No Calculator Key: A
---

Use the two functions below to answer question

**Function A**

$x$	$y$
-2	6
0	9
2	12
4	15

**Function B**

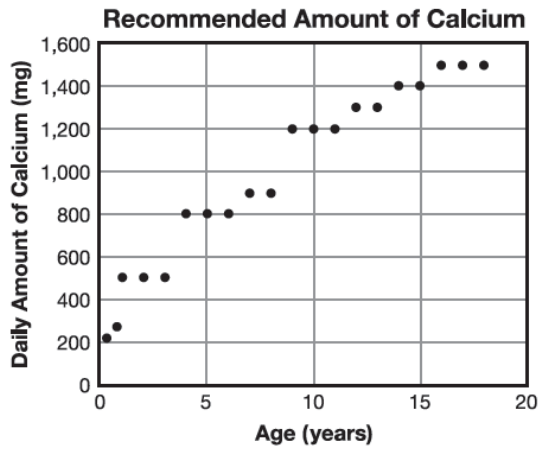
$$y = 3x + 9$$

Which comparison of function A and function B is correct?

- A. Function A and function B have the same  $y$ -intercept and the same slope.
- B. Function A and function B have different slopes and different  $y$ -intercepts.
- C. Function A and function B have the same  $y$ -intercept, but have different slopes.
- D. Function A and function B have the same slope, but have different  $y$ -intercepts.

This item measures aspects of 8.F.2  
No Calculator  
Key: C

The scatter plot below shows the relationship between the age of a person, ages 0 to 18, and the daily recommended amount of calcium, in milligrams (mg), the person should consume.



Which **best** describes the association between age and daily recommended amount of calcium consumption?

- A. no association
- B. negative association
- C. exponential association
- D. positive association

This item measures aspects of 8.SP.1  
No Calculator  
Key: D

Mac records the football players' breakfast and lunch eating habits. He asks all the players on the team to state whether or not they usually eat meals for breakfast and/or lunch. Mac displays his results in the frequency table below.

### Football Players' Breakfast and Lunch Eating Habits

	Eats Lunch	Does Not Eat Lunch	Total
Eats Breakfast	15	5	20
Does Not Eat Breakfast	23	2	25
Total	38	7	45

Which statement about the frequency table is true?

- A. More football players eat breakfast than lunch.
- B. Football players who eat breakfast always eat lunch.
- C. There were 23 more football players who did not eat breakfast than did eat lunch.
- D. There were 13 more football players who ate both meals than did not eat either meal.

This item measures aspects of 8.SP.4  
No Calculator  
Key: D

The area of Louisiana is approximately  $4 \times 10^4$  square miles. The area of the United States is approximately 225 times greater than the area of Louisiana. What is the approximate area of the United States?

- A.  $2.29 \times 10^4$  square miles
- B.  $2.29 \times 10^6$  square miles
- C.  $9 \times 10^2$  square miles
- D.  $9 \times 10^6$  square miles

<p>This item measures aspects of 8.EE.3 No Calculator Key: D</p>
--

Which equation has a graph that is a straight line?

A.  $y = \frac{1}{3}x - 1$

B.  $y = x^2 + 1$

C.  $y = x(x - 1)$

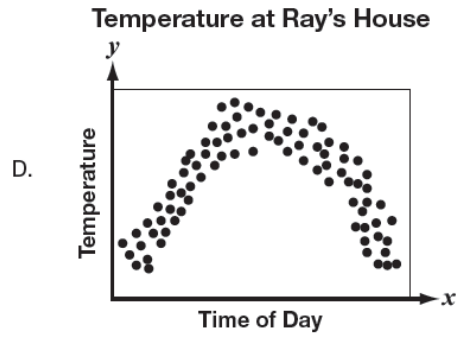
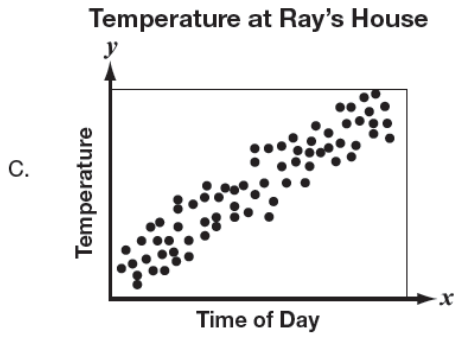
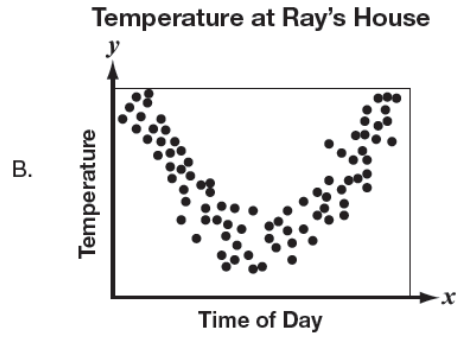
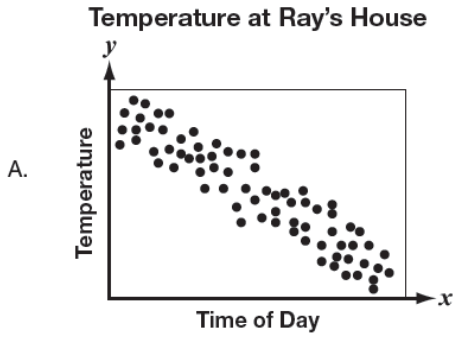
D.  $y = \frac{3}{x} + 1$

This item measures aspects of 8.F.3

No Calculator

Key: A

For a week in September, Ray recorded the temperature outside his kitchen window at random times throughout each day. He noticed that it was warmer in the middle of each day than it was in the morning or in the evening of each day. Which scatter plot shows the **best** representation of Ray's data?



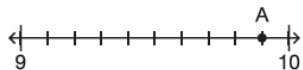
This item measures aspects of 8.SP.1  
 No Calculator  
 Key: D

A data company determines that it processes  $5 \times 10^5$  gigabytes of data each day. At the same rate, how many gigabytes does the company process in 365 days?

- A.  $1.825 \times 10^5$
- B.  $7.3 \times 10^5$
- C.  $1.825 \times 10^8$
- D.  $7.3 \times 10^8$

<p>This item measures aspects of 8.EE.4 No Calculator Key: C</p>
--

Point A on the number line is an approximation of an irrational number rounded to the nearest tenth.



Which could be the irrational number approximated by point A?

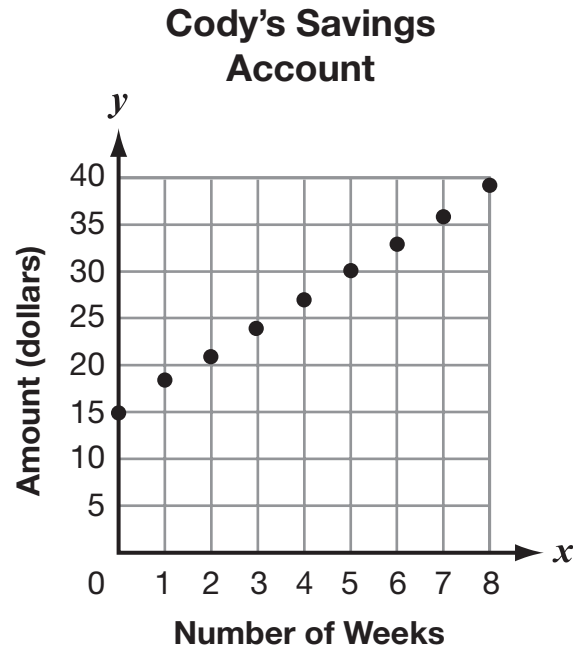
- A.  $\sqrt{9.9}$
- B.  $\sqrt{18.8}$
- C.  $\pi^2$
- D.  $\pi^3$

This item measures aspects of 8.NS.2

No Calculator

Key: C

Cody and Oren are each saving money to buy a new video game. The amount of money Cody has saved at the end of each week is shown in the graph below.



This item measures aspects of 8.F.2  
No Calculator  
Key: C

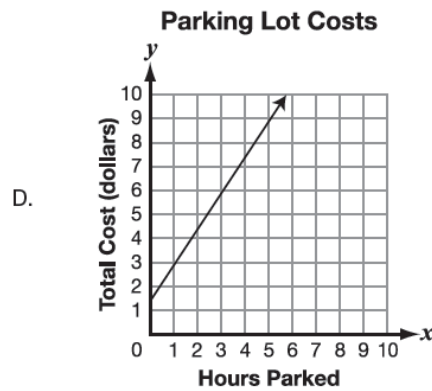
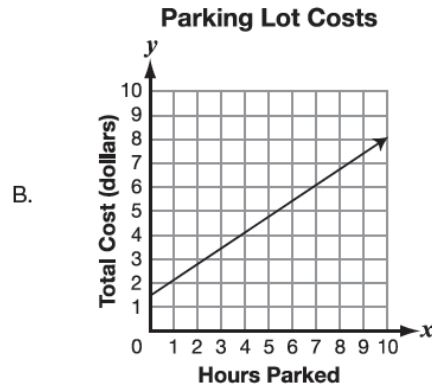
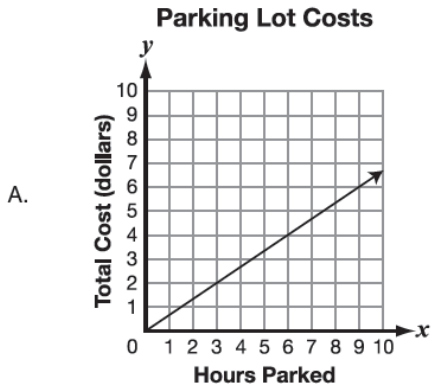
The amount of money,  $y$ , Oren has saved at the end of each week,  $x$ , can be determined by the equation below.

$$y = 3.50x + 15$$

Which description correctly compares the amount of money Cody has been saving to the amount of money Oren has been saving?

- A. Cody started saving with more money than Oren, but Oren has been saving more money each week.
- B. Cody started saving with more money than Oren, and he has been saving more money than Oren each week.
- C. Both Cody and Oren had the same amount of money saved when they started, but Oren has been saving more money each week than Cody.
- D. Both Cody and Oren started saving with the same amount of money, but Cody has been saving more money each week than Oren.

Latrell is paying to park his car in a parking lot. The parking lot charges \$1.50 per hour. Which graph shows the relationship between the number of hours Latrell parks his car,  $x$ , and his total cost,  $y$ ?



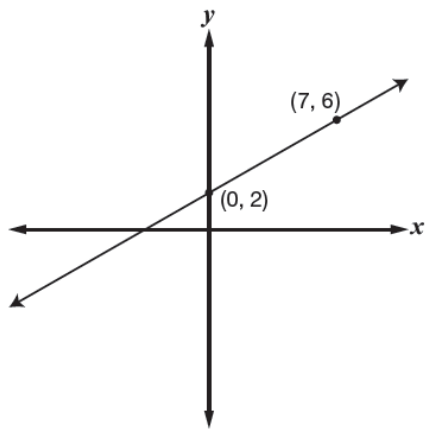
This item measures aspects of 8.EE.5  
 No Calculator  
 Key: C

Which number is irrational?

- A.  $\sqrt{3}$
- B.  $\sqrt{4}$
- C.  $3.\overline{45}$
- D.  $5^{-3}$

This item measures aspects of 8.NS.1  
No Calculator  
Key: A

Use the two points on the graph below to answer question



This item measures aspects of 8.EE.6  
No Calculator  
Key: D

What is the equation of the line that passes through the points?

- A.  $y = \left(\frac{6}{7}\right)x + 2$
- B.  $y = \left(\frac{6}{7-2}\right)x + 2$
- C.  $y = \left(\frac{6+2}{7}\right)x + 2$
- D.  $y = \left(\frac{6-2}{7}\right)x + 2$

The volume of a cube is 27 cubic centimeters. The length, in centimeters, of each edge of the cube,  $x$ , can be found by solving the equation below.

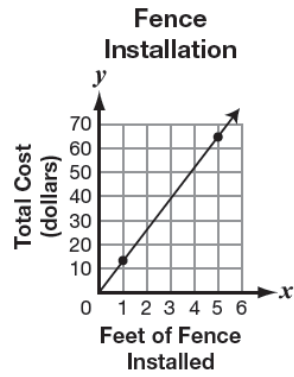
$$x^3 = 27$$

What is the length, in centimeters, of each edge of the cube?

- A. 3 centimeters
- B. 9 centimeters
- C. 24 centimeters
- D. 81 centimeters

This item measures aspects of 8.EE.2 No Calculator Key: A
---

A company installs chain-link fencing. The total installation cost is proportional to the number of feet of fence installed. The company makes a graph to show its prices, where  $x$  represents the number of feet of fence installed, and  $y$  represents the total cost. The graph passes through  $(1, 13)$  and  $(5, 65)$ .



This item measures aspects of 8.EE.5  
Calculator  
Key: C

What is the cost per foot of installed fence?

- A. \$4 per foot
- B. \$5 per foot
- C. \$13 per foot
- D. \$52 per foot

As part of a geometric design, Ariel draws a rhombus. She rotates the rhombus  $180^\circ$  around one of its vertices, then dilates the rhombus by a factor of 2. Which describes the relationship between the original rhombus and its image after the rotation and dilation?

- A. The two figures are neither similar nor congruent.
- B. The two figures are similar, but not congruent.
- C. The two figures are not similar, but are congruent.
- D. The two figures are both similar and congruent.

This item measures aspects of 8.G.4 Calculator Key: B
---

A hairstylist charges the prices shown on the sign below.

Hairstylist Prices		
	Haircut	Shampoo
Men	\$18	\$3
Women	\$28	\$6

Over the last 6 months Ben spent a total of \$105 and Diondra spent a total of \$170. Ben and Diondra each received  $x$  haircuts and  $y$  shampoos from the hairstylist, as shown by the equations below.

$$18x + 3y = 105$$

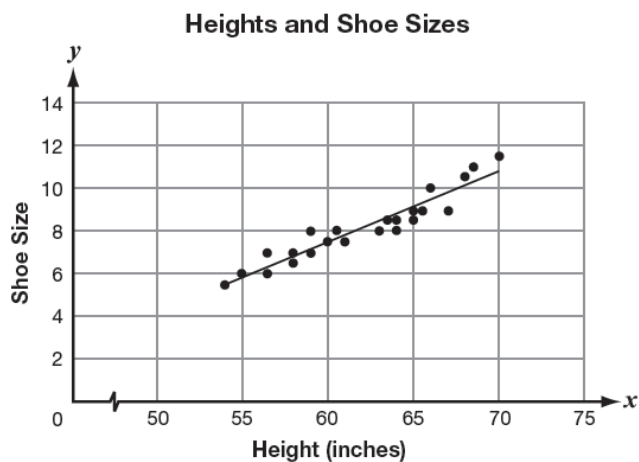
$$28x + 6y = 170$$

Which statement about the number of haircuts and shampoos Ben and Diondra received is true?

- A. Ben and Diondra each received 5 more haircuts than shampoos.
- B. Diondra received 5 more haircuts than Ben.
- C. Ben and Diondra each received 5 shampoos and 5 haircuts.
- D. Ben received 5 more shampoos than he did haircuts.

This item measures aspects of 8.EE.8b Calculator Key: C
---

The scatter plot shows the heights and shoe sizes of some students.

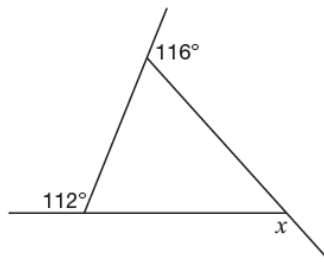


The equation for the line of best fit is  $y = \frac{1}{3}x - 13$ . Which statement **best** interprets the slope of the line of best fit?

- A. For every 1-inch increase in height, shoe size increases by 3 sizes.
- B. For every 3-inch increase in height, shoe size increases by 1 size.
- C. For every 1-inch increase in height, shoe size decreases by 3 sizes.
- D. For every 3-inch increase in height, shoe size decreases by 1 size.

This item measures aspects of 8.SP.3  
Calculator  
Key: B

Use the diagram below to answer question



Which statement about the value of angle  $x$  is true?

- A. The value of angle  $x$  is  $68^\circ$ , because  $180^\circ - 112^\circ = 68^\circ$ .
- B. The value of angle  $x$  is  $114^\circ$ , because the average of  $112^\circ$  and  $116^\circ$  is  $114^\circ$ .
- C. The value of angle  $x$  is  $132^\circ$ , because  $360^\circ - (112^\circ + 116^\circ) = 132^\circ$ .
- D. The value of angle  $x$  is  $228^\circ$ , because  $112^\circ + 116^\circ = 228^\circ$ .

This item measures aspects of 8.G.5  
Calculator  
Key: C

Darcy records the total number of houses in her neighborhood each year in the table below.

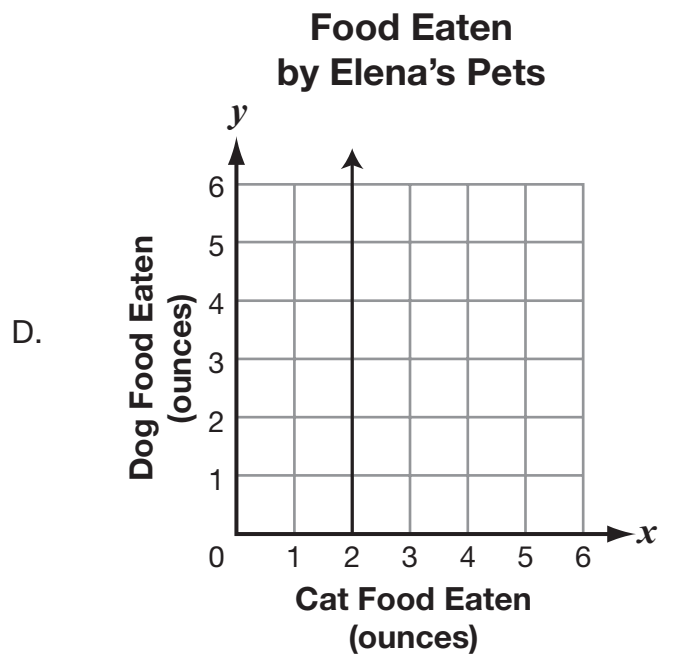
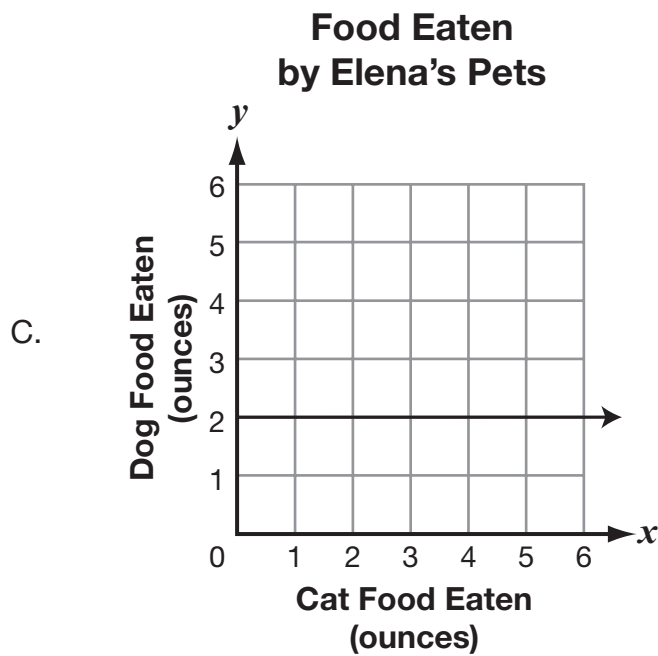
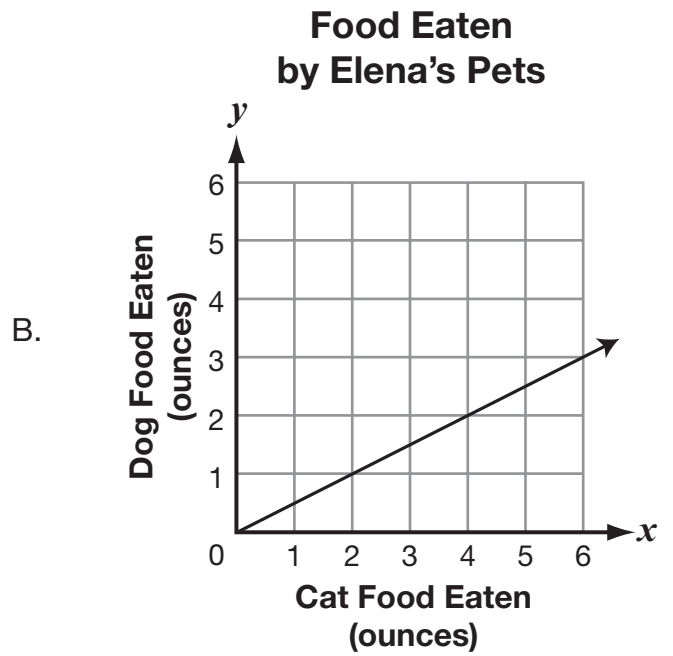
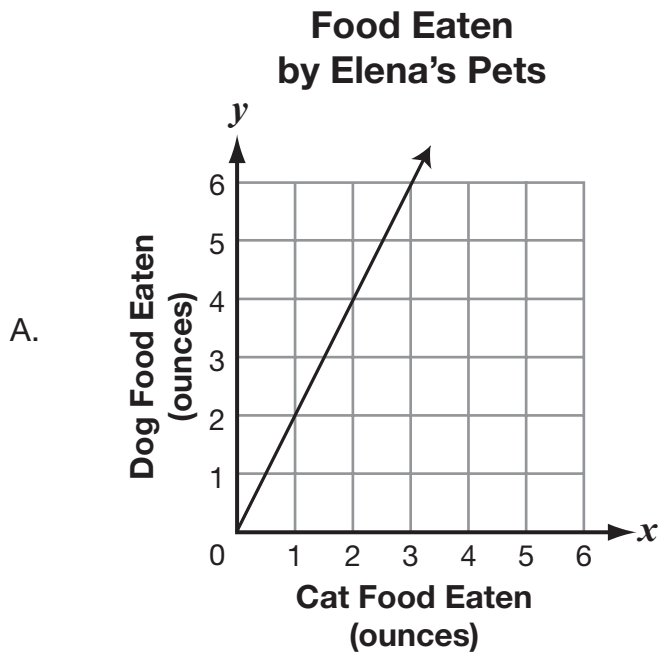
Year	Number of Houses
1	14
3	26
4	32
6	44

This item measures aspects of 8.F.4  
Calculator  
Key: A

Which equation represents the number of houses ( $y$ ) after  $x$  years?

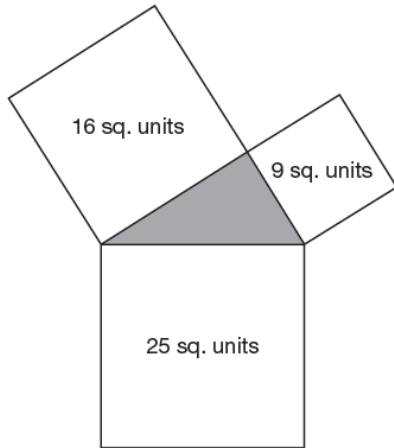
- A.  $y = 6x + 8$
- B.  $y = 6x - 10$
- C.  $y = 12x + 8$
- D.  $y = 12x - 10$

Elena has a cat and a dog. For every 1 ounce of food the cat eats, the dog eats 2 ounces of food. She creates a graph to show this. The graph has a unit rate of 2. Which could be the graph Elena created?



This item measures aspects of 8.EE.5  
 Calculator  
 Key: A

The drawing below shows a triangle with a square drawn on each of its sides. The labels show the areas of the squares.



This item measures aspects of 8.G.6  
Calculator  
Key: A

Which statement is true based on the drawing?

- A. The triangle is right.
- B. The triangle is obtuse.
- C. The triangle is isosceles.
- D. The triangle is equilateral.

Use the table and the equation below to answer question

Line A:

$x$	$y$
-2	0
-1	2
0	4
1	6

Line B:

$$5y - 5x = 25$$

Which statement correctly compares lines A and B?

- A. The  $x$ -intercept of line A is less than the  $x$ -intercept of line B.
- B. The  $y$ -intercept of line A is less than the  $y$ -intercept of line B.
- C. The  $y$ -intercept of line A is opposite the  $y$ -intercept of line B.
- D. The  $x$ -intercept of line A is opposite the  $x$ -intercept of line B.

This item measures aspects of 8.F.2

Calculator

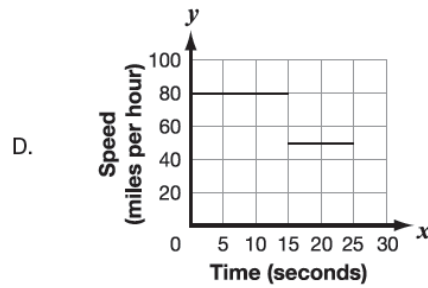
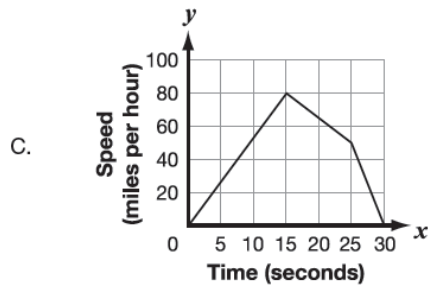
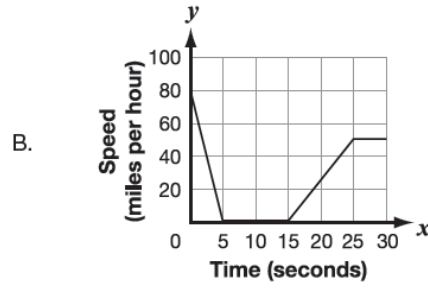
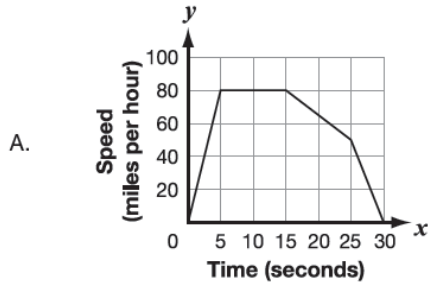
Key: B

A race car driver tests his car. From a complete stop, he does the following:

- accelerates to 80 miles per hour in 5 seconds
- drives 80 miles per hour for 10 seconds
- slows to 50 miles per hour in 10 seconds
- comes to a complete stop in 5 seconds

This item measures aspects of 8.F.5  
Calculator  
Key: A

Which graph best represents the car's speed over time?



The solution to a system of two linear equations in two variables,  $x$  and  $y$ , is shown below.

$$x = 3$$

$$y = 5$$

Which statement **best** describes the solution to the system of the two linear equations?

- A. The solution is equivalent to  $(3 + 5)$ .
- B. The solution is equivalent to  $(3 \times 5)$ .
- C. The solution is equivalent to  $(3, 5)$ .
- D. The solution is equivalent to  $(3 - 5)$ .

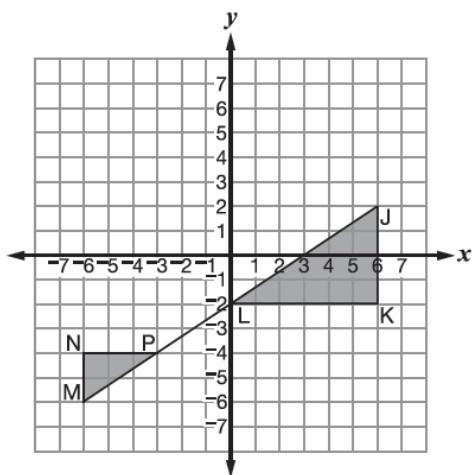
This item measures aspects of 8.EE.8a Calculator Key: C
---

Jan's company manufactures medical filters. The holes in the filters are supposed to be 0.006 inch in diameter. Jan drilled a hole in one filter with a diameter that was  $1 \times 10^{-5}$  inch too big. What was the diameter of the hole Jan drilled?

- A.  $6.1 \times 10^{-3}$  inch
- B.  $6.1 \times 10^3$  inch
- C.  $6.01 \times 10^{-3}$  inch
- D.  $6.01 \times 10^3$  inch

This item measures aspects of 8.EE.4 Calculator Key: C
--

Two similar triangles are shown on the coordinate grid.



This item measures aspects of 8.EE.6  
Calculator  
Key: A

Which explains why the slope of segment JL is the same as the slope of segment MP?

- A.  $\frac{JK}{KL} = \frac{MN}{NP}$
- B.  $\frac{JK}{KL} = \frac{NP}{MN}$
- C.  $KL - JK = NP - MN$
- D.  $KL + JK = NP + MN$

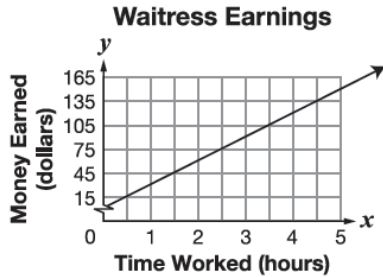
Emily works two jobs, one as a secretary and one as a waitress. The table represents the amount of money Emily makes as a secretary.

**Secretary Earnings**

Time Worked (hours)	Money Earned (dollars)
5	\$125
6	\$150
7	\$175
8	\$200
9	\$225
10	\$250

This item measures aspects of 8.EE.5  
Calculator  
Key: B

The graph below represents the amount of money Emily makes as a waitress.

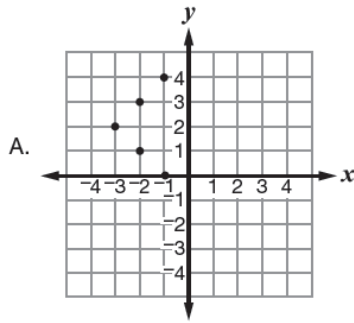


Which statement is true?

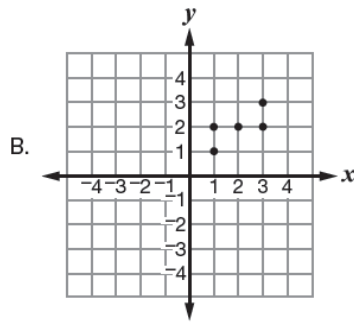
- A. Emily makes more money per hour working as a secretary.
- B. Emily makes more money per hour working as a waitress.
- C. Emily makes the same amount of money per hour working as a waitress or a secretary.
- D. Emily makes more money as a waitress the first 5 hours, but then makes more money as a secretary every hour after that.

Claire plotted the locations of some of her friends' houses on a coordinate grid. The points she plotted created a function. Which coordinate grid could show the locations of some of Claire's friends' houses?

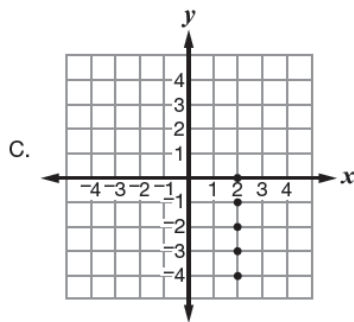
**Claire's Friends' Houses**



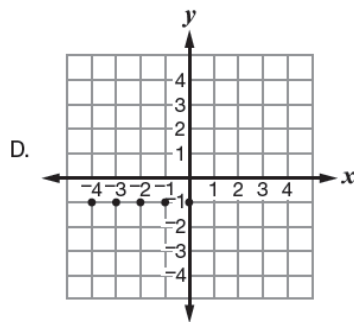
**Claire's Friends' Houses**



**Claire's Friends' Houses**

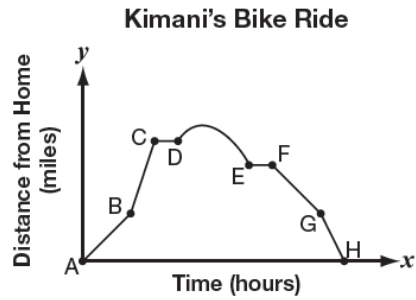


**Claire's Friends' Houses**



This item measures aspects of 8.F.1  
Calculator  
Key: D

Kimani went for a bike ride. He started at home, then went to the park and played for a few minutes. After playing, he rode to the lake and rested for a few minutes before riding back home. The graph below shows Kimani's bike ride.

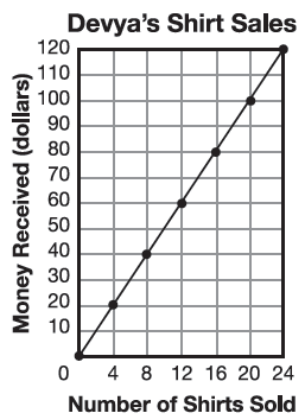


This item measures aspects of 8.F.5  
Calculator  
Key: D

Which statement **must** be true about Kimani's bike ride?

- A. Kimani was riding uphill from point B to point C.
- B. Kimani was farther away from home at point H than point G.
- C. Kimani was riding his bike at the same speed from point C to point D.
- D. Kimani was the farthest distance from home between point D and point E.

Devya sold shirts to raise money for a school trip. The amount of money she received from her sales is proportional to the number of shirts she sold, as shown in the graph below.

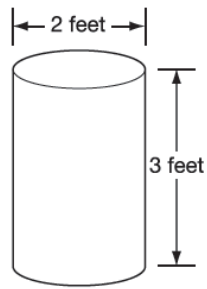


This item measures aspects of 8.EE.5  
Calculator  
Key: B

Which statement correctly interprets the meaning of the line in the graph?

- A. Devya sold a total of 5 shirts.
- B. Devya received \$5 for each shirt sold.
- C. Devya sold 5 shirts for each dollar received.
- D. Devya received a total of \$5 for selling all the shirts.

Jake collects grass clippings and weeds in the cylindrical container shown below.

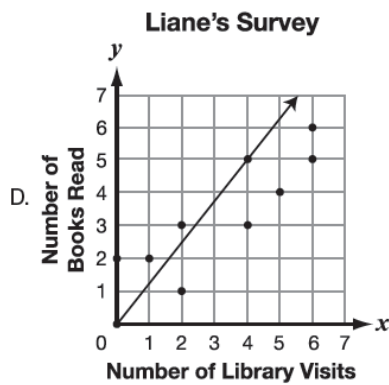
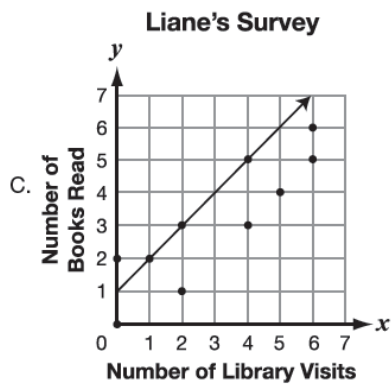
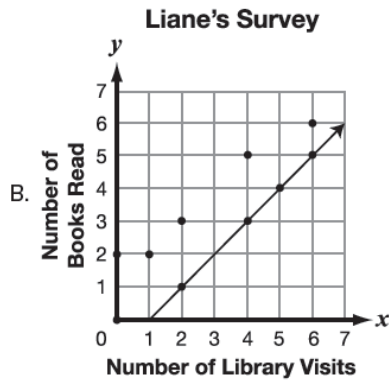
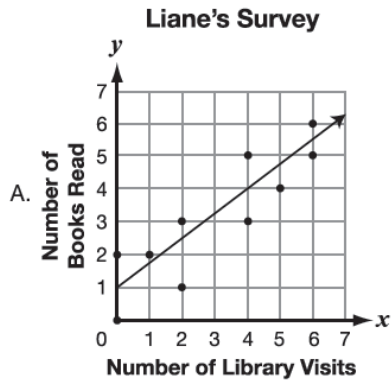


This item measures aspects of 8.G.9  
Calculator  
Key: A

What is the approximate volume of Jake's cylindrical container?

- A. 9.42 cubic feet
- B. 18.84 cubic feet
- C. 28.26 cubic feet
- D. 37.68 cubic feet

Liane surveyed 10 people to find a relationship between library visits and books read in one month. She created a scatter plot to display the data and determined that there was a linear relationship between the number of library visits and the number of books read. Which scatter plot shows the line of best fit for Liane's data?



This item measures aspects of 8.SP.2  
 Calculator  
 Key: A

Write your answers to questions through on the lines or in the spaces provided. The questions have more than one part. Show all the work you do to find your answers. Even if you cannot answer all parts, answer as many as you can. You may still get points for answering part of a question. Be sure to write clearly.



**You MAY use a calculator for this session.**

In January, Deshaun visited his friend in Minnesota. While he was there, Deshaun kept track of the depth of ice in a clear container that he put outside. Based on his data, he wrote the equation  $y = \frac{2}{3}(x + 6)$  to represent  $y$ , the inches of ice  $x$  hours since he started keeping track. To help him determine when the ice would be 8 inches deep, he tried to solve the equation  $8 = \frac{2}{3}(x + 6)$  using the steps shown below.

$$8 = \frac{2}{3}(x + 6)$$

$$\text{Step 1: } 8 = \frac{2}{3}x + 6$$

$$\text{Step 2: } 2 = \frac{2}{3}x$$

$$\text{Step 3: } 3 = x$$

- A.** Identify the step in which Deshaun made the first mistake in his work. Explain what the mistake was.

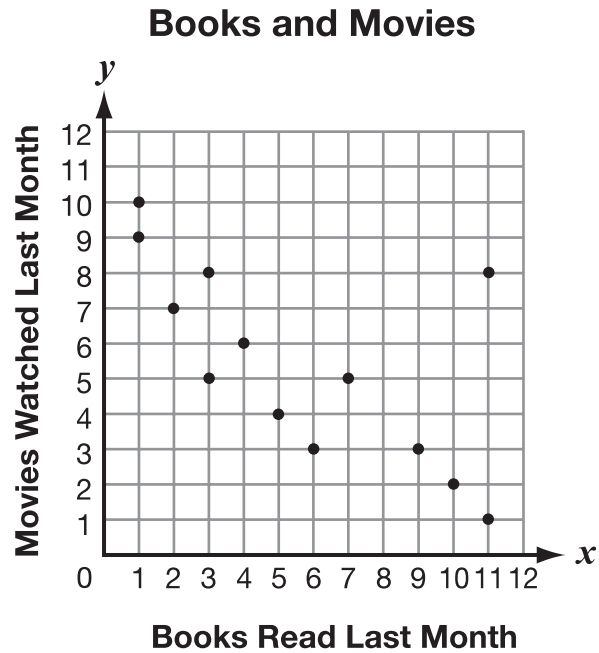
- B.** By correcting the mistake and the rest of Deshaun's work, find the solution to Deshaun's equation. What is the solution to Deshaun's equation?

**Solution:**

- C.** Explain how using Deshaun's equation to find the depth of ice 10 hours after he started measuring would be different than the work you did in **part B**.

<b>Scoring Rubric</b>	
<b>4</b>	The student earns 4 points.
<b>3</b>	The student earns 3 points.
<b>2</b>	The student earns 2 points.
<b>1</b>	The student earns 1 point OR demonstrates minimal understanding of the concept being measured.
<b>0</b>	The student's response is incorrect or irrelevant to the skill or concept being measured.
<b>B</b>	The student provides no response.
<b>Sample Answer:</b>	
<p>Part A. (Deshaun's first mistake was in) Step 1. He didn't distribute the <math>\frac{2}{3}</math> to the 6.</p> <p>Part B. 6 (hours)</p> <p>Part C. To find the depth of the ice after 10 hours, you would plug in 10 for <math>x</math>, not for <math>y</math>.</p>	
<b>Points Assigned:</b>	
<p>Part A. 2 points  1 point for identifying Step 1  <b>AND</b>  1 point for a correct and complete explanation</p> <p>Part B. 1 point  1 point for the correct answer</p> <p>Part C. 1 point  1 point for a correct and complete explanation</p>	

Martin collected data about the number of books people read and movies people watched last month. He recorded the data in the scatter plot shown below.



- A. Identify the coordinates of the outlier of the data and explain what each coordinate represents.

$x$ : \_\_\_\_\_  $y$ : \_\_\_\_\_

**Explanation:**

**B.** Martin says the data has a linear association. Explain why Martin is correct.

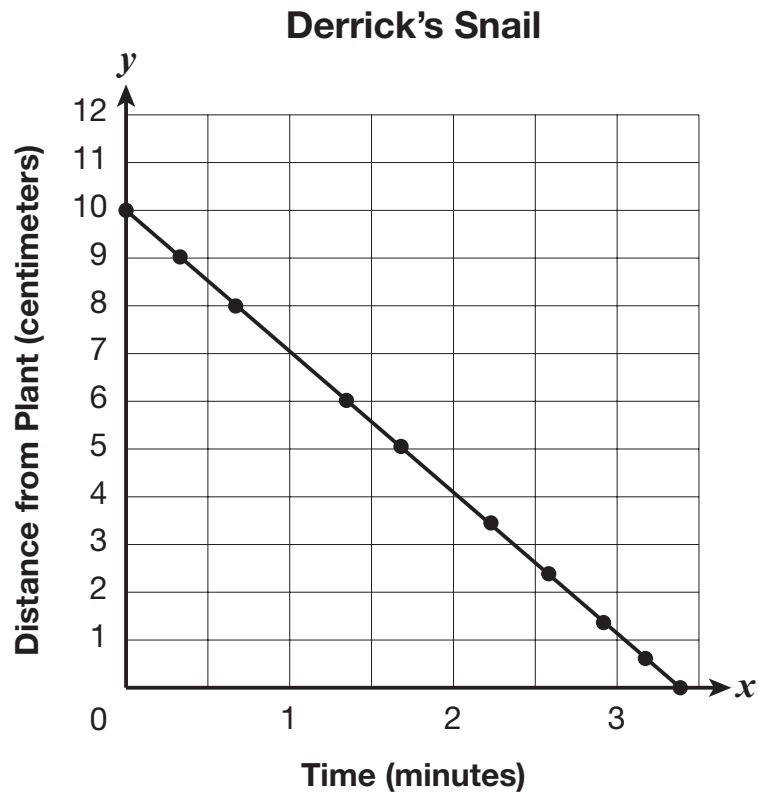
**C.** Martin says the data shows a negative association. Explain why Martin is correct.

Grade: 8

<b>Scoring Rubric</b>	
<b>4</b>	The student earns 4 points.
<b>3</b>	The student earns 3 points.
<b>2</b>	The student earns 2 points.
<b>1</b>	The student earns 1 point OR demonstrates minimal understanding of the concept being measured.
<b>0</b>	The student's response is incorrect or irrelevant to the skill or concept being measured.
<b>B</b>	The student provides no response.
<b>Sample Answer:</b>	
<p>Part A. (11, 8). The <math>x</math>-coordinate, or 11, represents a <u>person</u> who read 11 books (last month) AND the <math>y</math>-coordinate, or 8, represents a <u>person</u> who watched 8 movies (last month) OR equivalent.</p> <p>Part B. <i>Most</i> of the data (except the outlier) lies along a trend line OR a line of best fit OR equivalent.</p> <p>Part C. In general, as the value of books read increases, the value of movies watched decreases OR as the value of one quantity increases, the value of the other quantity decreases OR equivalent.</p>	
<b>Points Assigned:</b>	
<p>Part A. 2 points 1 point for the correct answer <b>AND</b> 1 point for a correct and complete explanation</p> <p>Part B. 1 point 1 point for a correct and complete explanation</p> <p>Part C. 1 point 1 point for a correct and complete explanation</p>	

**Note:** Scorers should follow along with the student's work throughout. If student makes an error in a previous part and subsequent answers are correct based on the earlier error, student should not be penalized again.

Derrick and Mario are learning about snails and conduct an experiment. Derrick picks up a snail off of a plant and sets it on the ground a short distance away. The snail goes back to the plant. Derrick measures the distance from the snail to the plant at various times as the snail returns to the plant. Derrick records the data on the graph shown.



- A. There is a point where the line on the graph intersects the vertical axis. In terms of Derrick's snail, what does this point represent?

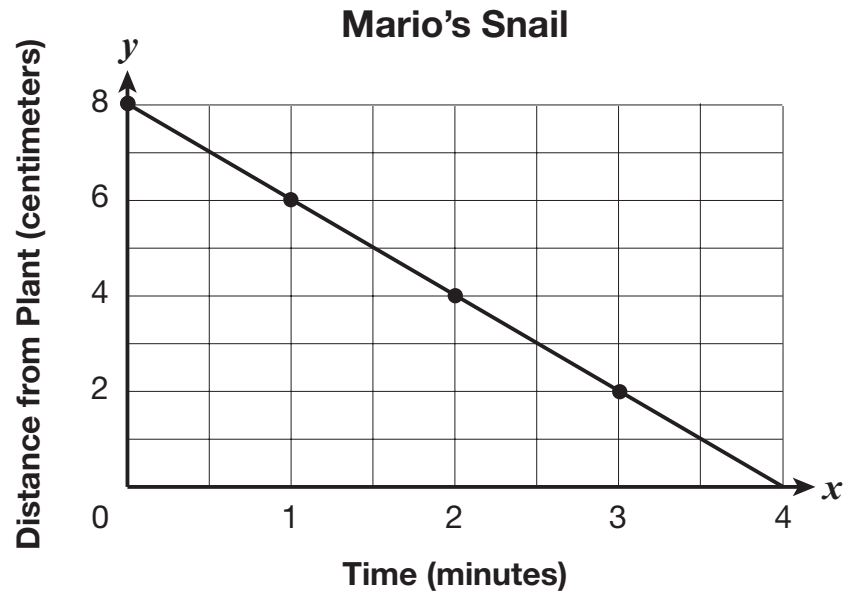
- B.** What is the speed of the snail? Include the units in your answer.

Mario repeats the experiment with a different snail. He makes notes about the second snail's movement in the table shown.

<b>Time from Start</b>	<b>Notes</b>
0	The snail is 6 cm from the plant.
30 seconds	The snail has not moved.
1 minute	The snail is just starting to move.
2 minutes	The snail is now 4 cm from the plant.
3 minutes	The snail is now 2 cm from the plant.
4 minutes	The snail is now at the plant.

- C.** For Mario's snail, is the relationship between time and distance linear? Explain your answer.

D. Mario draws this graph and plots his data, but he makes a mistake.



What is Mario's mistake, and what should he do to fix his graph to match the information in his table? Explain your answer.

Grade 8

<b>Scoring Rubric</b>	
<b>4</b>	The student earns 4 points.
<b>3</b>	The student earns 3 points.
<b>2</b>	The student earns 2 points.
<b>1</b>	The student earns 1 point OR demonstrates minimal understanding of the concept being measured.
<b>0</b>	The student's response is incorrect or irrelevant to the skill or concept being measured.
<b>B</b>	The student provides no response.
<b>Sample Answer:</b>	
<p>Part A. The point (where the line intersects the vertical axis) shows how far away from the plant Derrick placed the snail OR it shows that the snail started 10 cm away from the plant OR that's the snail's starting point OR equivalent.</p> <p>Part B. 2.7 cm/min to 3.2 cm/min, inclusive.</p> <p>Part C. The relationship is not linear because part of the time the snail was not moving and part of the time it was moving OR a linear relationship would require the snail to move at a constant pace (from zero minutes until it reaches the plant) OR equivalent.</p> <p>Part D. The first minute of Mario's data is graphed incorrectly. The snail was 6 cm from the plant for the entire first minute, so the graph should show a horizontal line at 6 cm for the time between 0 and 1 minute OR equivalent.</p>	
<b>Points Assigned:</b>	
<p>Part A. 1 point 1 point for correctly describing the meaning of the y-intercept of the graph in terms of Derrick's snail</p> <p>Part B. 1 point 1 point for the speed of Derrick's snail with correct units</p> <p>Part C. 1 point 1 point for stating that the relationship is non-linear and having a correct and complete explanation</p> <p>Part D. 1 point 1 point for correctly describing how to fix a mistake in the graph. (Note: More than one mistake could be interpreted on the graph. A possible one could be the y-intercept should be at 6 cm OR there should be a point at 30 seconds and 6 cm since there is a point for the other points listed in the table OR the point for 1 minute could be located a little below the lattice point [1, 6] since the snail has started moving and would no longer be in its original location OR there should be a horizontal line from 0 to 1 minute.)</p>	