

Name:

Answers!

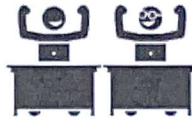
Class:



Communication



Successful Partnership



Encouragement



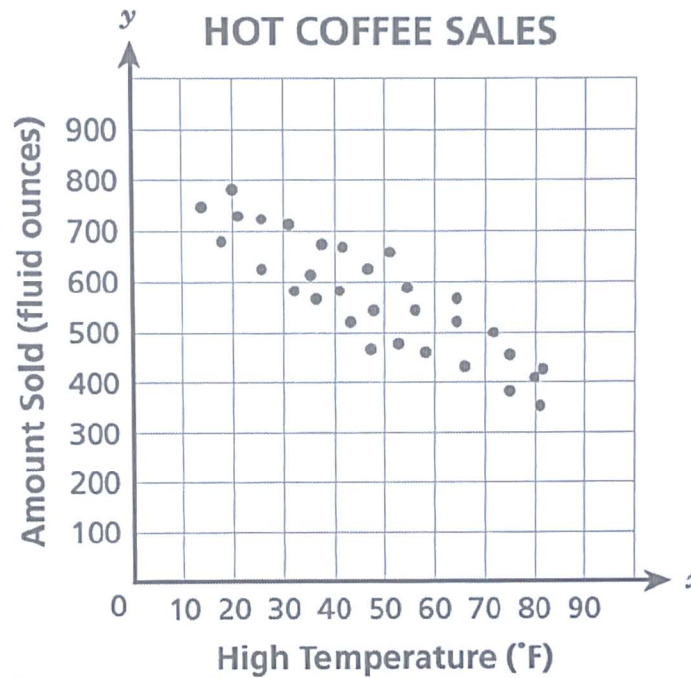
Solving Problem Together



Collaboration

Question 01

The equation for the line of best fit for the graph below is: $y = -5x + 800$



when it is 40° outside ↘

Part A

When would you expect to sell 600 hot coffees?

y-value ↘

$$y = -5x + 800$$

$$600 = -5x + 800$$

$$+5x \quad +5x$$

$$5x + 600 = 800$$

$$-600 \quad -600$$

$$5x = 200$$

$$x = 40$$

Part B

When would you expect to sell 250 hot coffees?

$$250 = -5x + 800$$

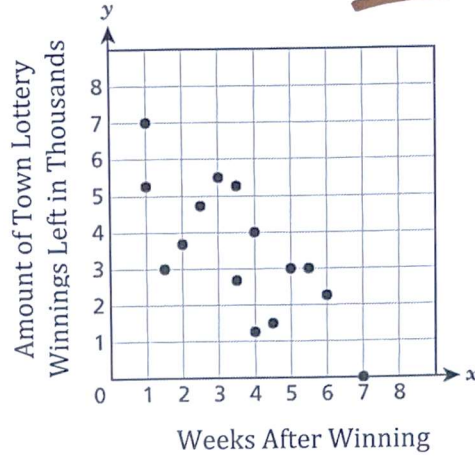
$$5x = 550$$

$$x = 110$$

when it is 110° outside ↘

Question 02

The equation for the line of best fit for the graph below is: $y = -x + 7$



Part A How much is the "Town Lottery" prize?

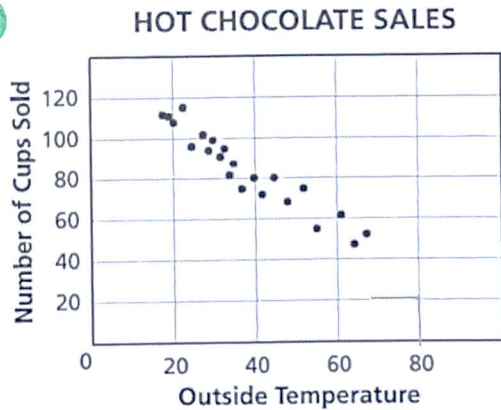
\$7,000

Part B What does the slope of -1 mean in this context?

Generally, lottery winners spend \$1,000 each week

Question 03

The equation for the line of best fit for the graph below is: $y = -1.4x + 140$



$70 = -1.4x + 140$
 $1.4x = 70$
 $x = 50$

$7 = -1.4x + 140$
 $1.4x = 133$
 $x = 19$

Part A When would you expect to sell 70 hot chocolates?

50°

Part B When would you expect to sell 7 hot chocolates?

19°