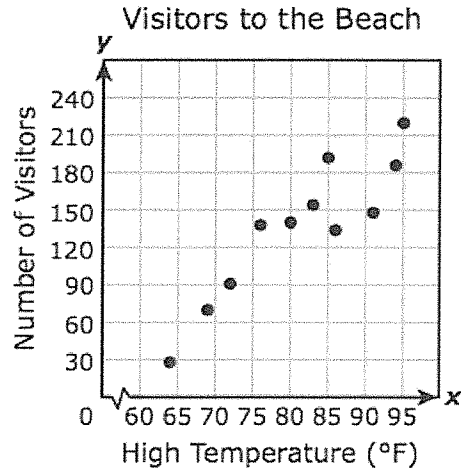


## GRAPHS/SCATTERPLOTS

- 1 The scatterplot shows the number of visitors to a beach each day and the high temperature in degrees Fahrenheit for that day.

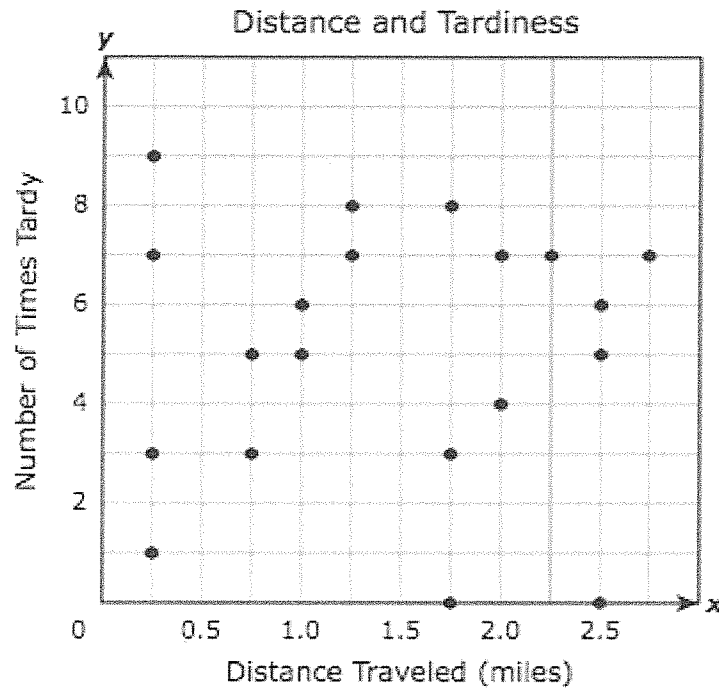


Based on this scatterplot, which statement appears to be true?

- A** There is a nonlinear correlation between the high temperature and the number of visitors to the beach.
- B** When the high temperature is above  $100^{\circ}\text{F}$ , fewer than 150 visitors are expected at the beach.
- C** There is no correlation between the high temperature and the number of visitors to the beach.
- D** When the high temperature is between  $75^{\circ}\text{F}$  and  $90^{\circ}\text{F}$ , more than 120 visitors are expected at the beach.

## GRAPHS/SCATTERPLOTS

- 51 The scatterplot shows the relationship between the distance that students traveled to get to school and the number of times those students were tardy during the school year.

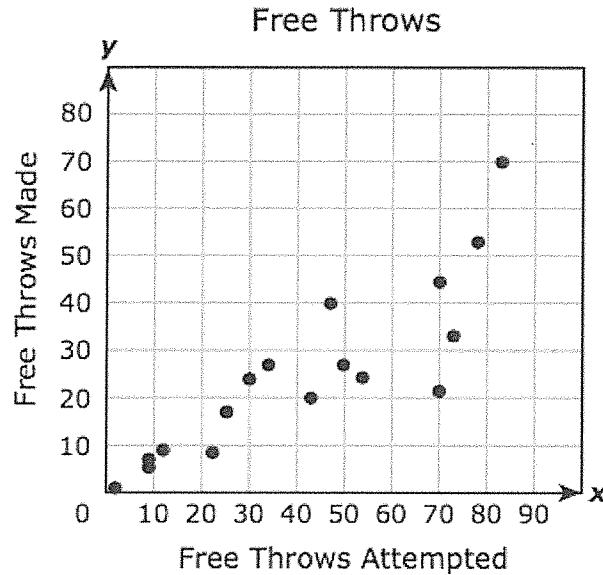


The principal of the school wants to use this information to help him determine if there is a correlation between distance traveled and the number of times tardy. Which statement is a reasonable conclusion that the principal could make?

- A A student who travels 1.5 miles to get to school will be tardy 9 times during the school year.
- B A student who travels more than 3 miles to get to school will be tardy at least 7 times during the school year.
- C There is no correlation between the distance a student travels to get to school and the number of times the student will be tardy during the school year.
- D There is a nonlinear correlation between the distance a student travels to get to school and the number of times the student will be tardy during the school year.

## GRAPHS/SCATTERPLOTS

- 2 The scatterplot shows the number of free throws that different basketball players attempted and the number that each player made.

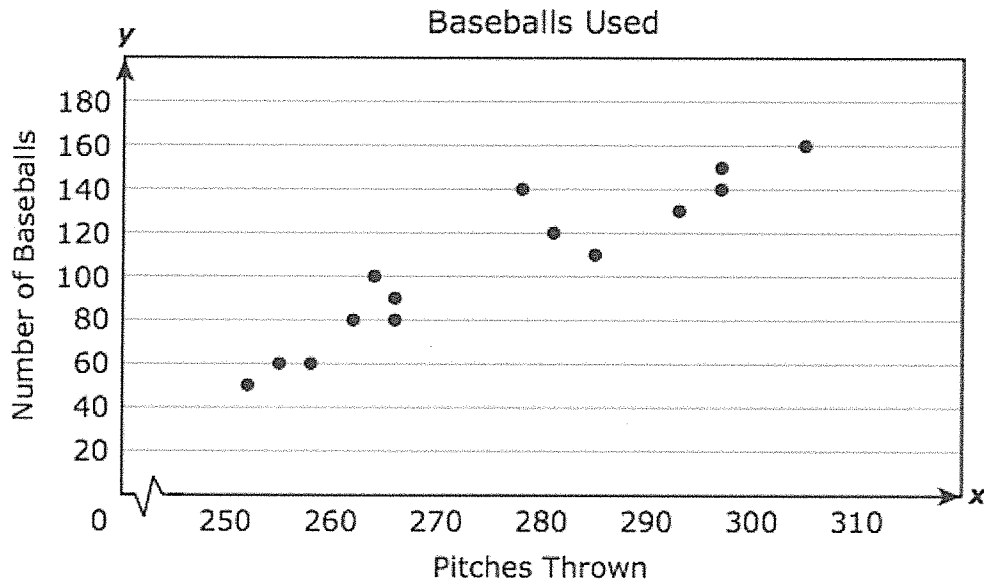


Based on the trend in the data, approximately how many free throws would a player be expected to make if he attempted 60 free throws?

- F 50
- G 35
- H 25
- J 60

## GRAPHS/SCATTERPLOTS

- 33** The scatterplot below shows the relationship between the number of baseballs used in 14 games and the number of pitches thrown in these games.

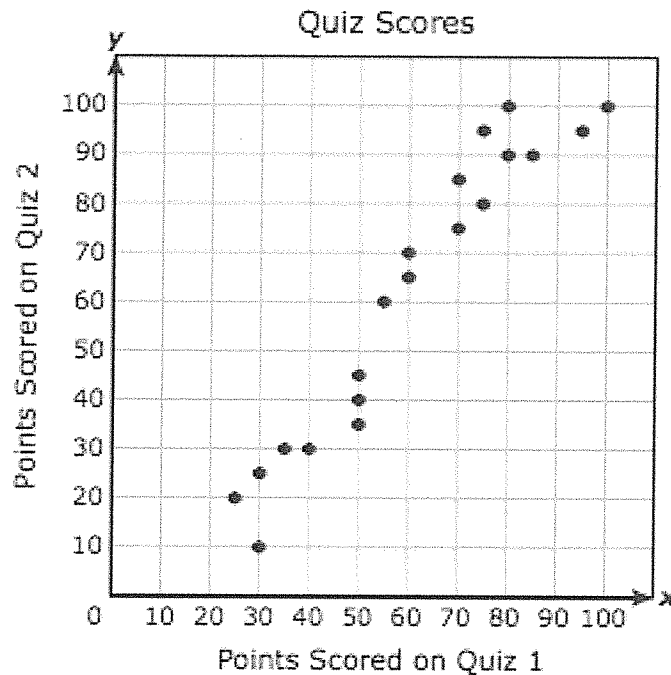


Based on the scatterplot, what is the best prediction of the number of baseballs that will be used if 275 pitches are thrown?

- |              |              |
|--------------|--------------|
| <b>A</b> 150 | <b>C</b> 100 |
| <b>B</b> 60  | <b>D</b> 160 |

## GRAPHS/SCATTERPLOTS

- 38** A teacher collected data on 20 students for two different quizzes. The scatterplot below shows the relationship between the number of points scored on Quiz 1 and the number of points scored on Quiz 2.

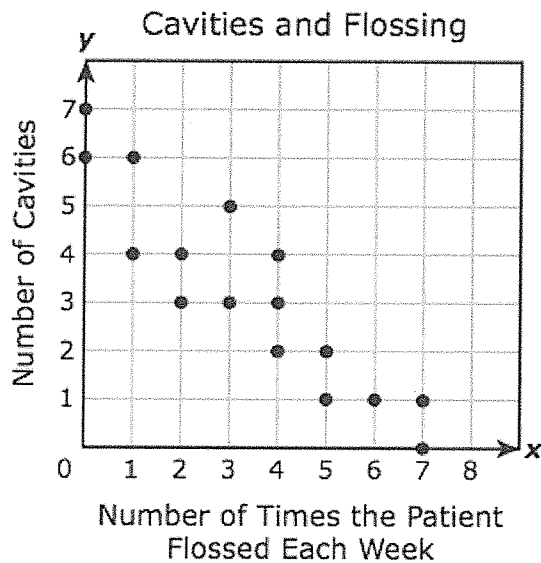


Which statement describes the data?

- F** The number of points scored on Quiz 2 was less than the number of points scored on Quiz 1 for any student who scored at least 50 points on Quiz 1.
- G** The number of points scored on Quiz 2 was greater than the number of points scored on Quiz 1 for any student who scored 50 or fewer points on Quiz 1.
- H** The number of points scored on Quiz 2 was greater than the number of points scored on Quiz 1 for any student who scored at least 50 points on Quiz 1.
- J** The number of points scored on Quiz 2 was less than the number of points scored on Quiz 1 for any student who scored 50 or fewer points on Quiz 1.

## GRAPHS/SCATTERPLOTS

- 1 A dentist made the scatterplot below to show the number of cavities her patients had as it relates to the number of times they flossed their teeth each week.

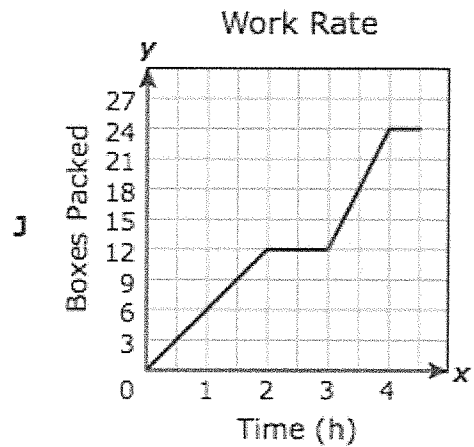
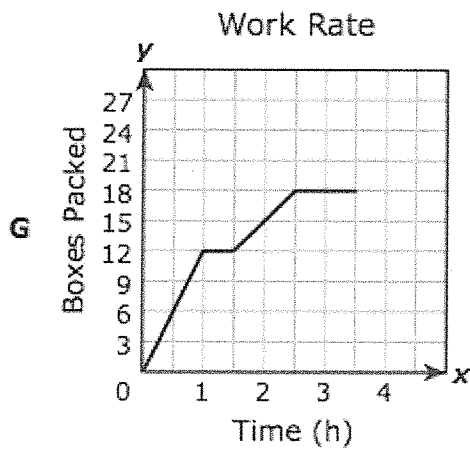
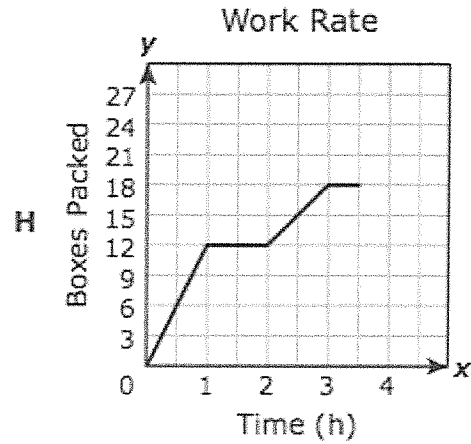
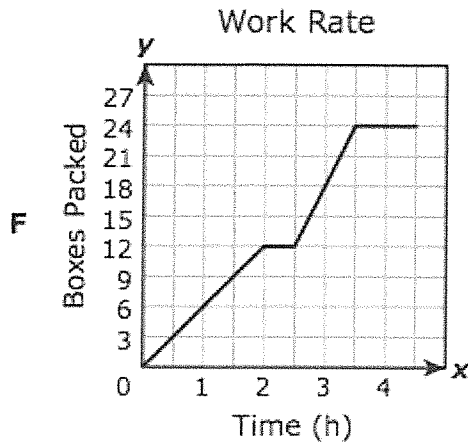


Which of the following best describes the correlation for the data?

- A** Positive correlation
- B** Nonlinear correlation
- C** Negative correlation
- D** No correlation

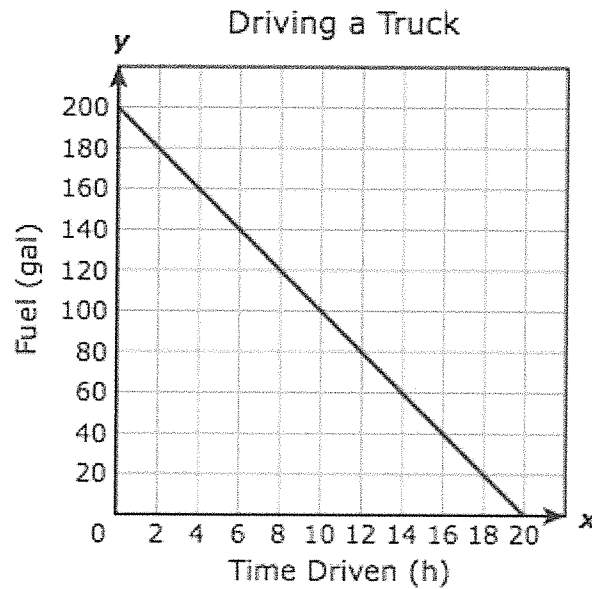
## GRAPHS/SCATTERPLOTS

- 38** A factory worker packed 12 boxes at a constant rate, took a 30-minute break, and then continued packing boxes at twice the rate before the break. The worker then spent 1 hour cleaning the work area. Which graph models this situation?



## GRAPHS/SCATTERPLOTS

- 47 The graph below shows the relationship between the number of gallons of fuel remaining in a truck and the number of hours the truck has been driven.



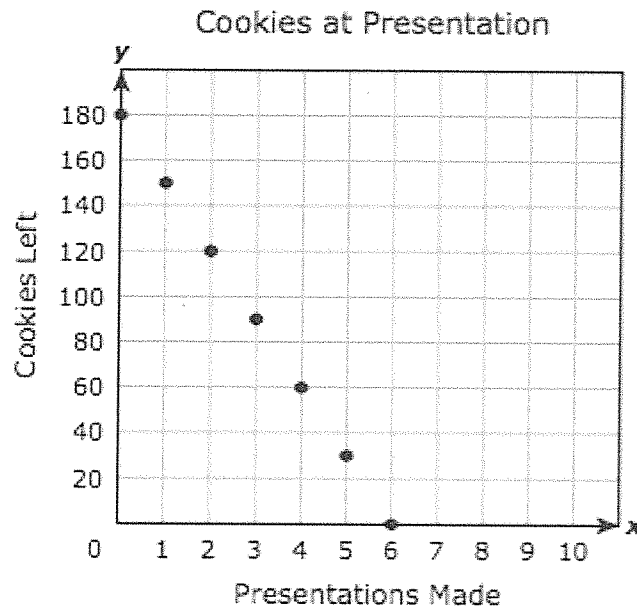
What does the x-intercept of the graph represent?

- A The number of gallons of fuel in the truck before any driving occurred
- B The number of hours the truck was driven before running out of fuel
- C The number of gallons of fuel the truck can hold
- D The number of hours required to use one gallon of fuel



## GRAPHS/SCATTERPLOTS

- 17 The graph shows the relationship between the number of cookies a presenter at a convention had left to give away and the number of presentations she had made.



What does the  $x$ -intercept of the graph represent?

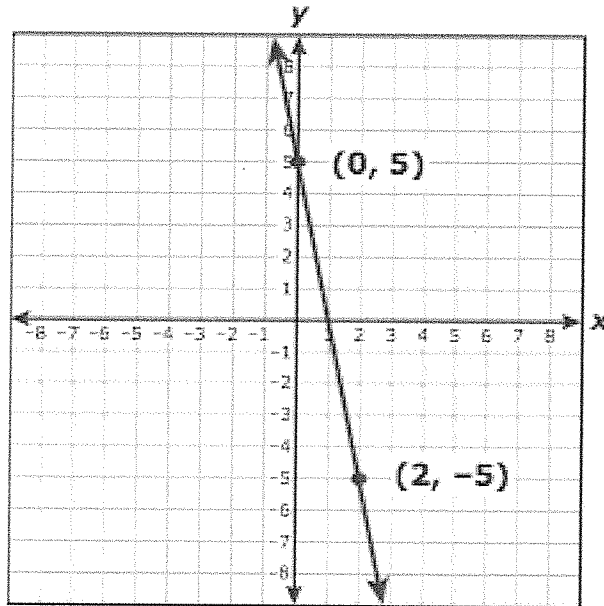
- A The number of cookies the presenter had before making any presentations
- B The maximum number of cookies the presenter gave away during every presentation
- C The number of presentations the presenter made per hour
- D The maximum number of presentations the presenter made before running out of cookies

## GRAPHS/SCATTERPLOTS

- 33 The graph of line  $p$  represents  $y = \frac{1}{5}x - 1$ . If the slope of line  $p$  is multiplied by  $-10$  to create line  $r$ , which statement about the graphs of the two lines is true?
- A Line  $r$  intersects line  $p$ .
  - B Line  $r$  is parallel to line  $p$ .
  - C Line  $r$  is 10 units above line  $p$ .
  - D Line  $r$  is 10 units below line  $p$ .

GRAPHS/SCATTERPLOTS

27 What is the zero of the linear function graphed below?



Record your answer and fill in the bubbles on your answer document.

