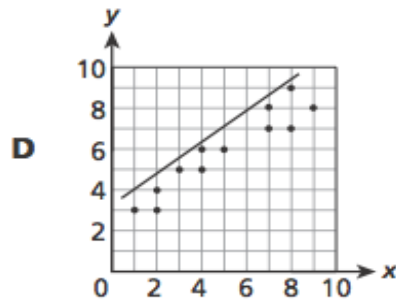# Topic No. 01
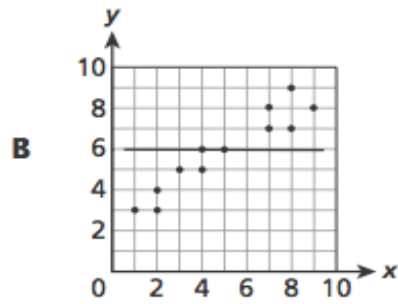
#1
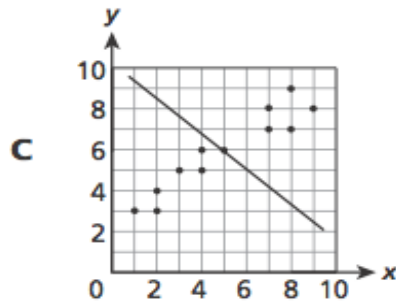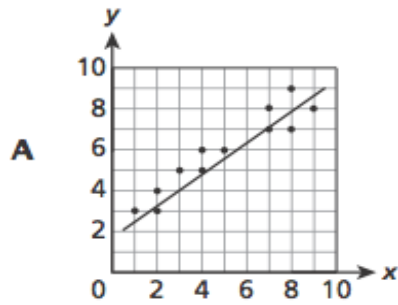
Question 1

Which line represents the best fit for the scatter plot data?

A
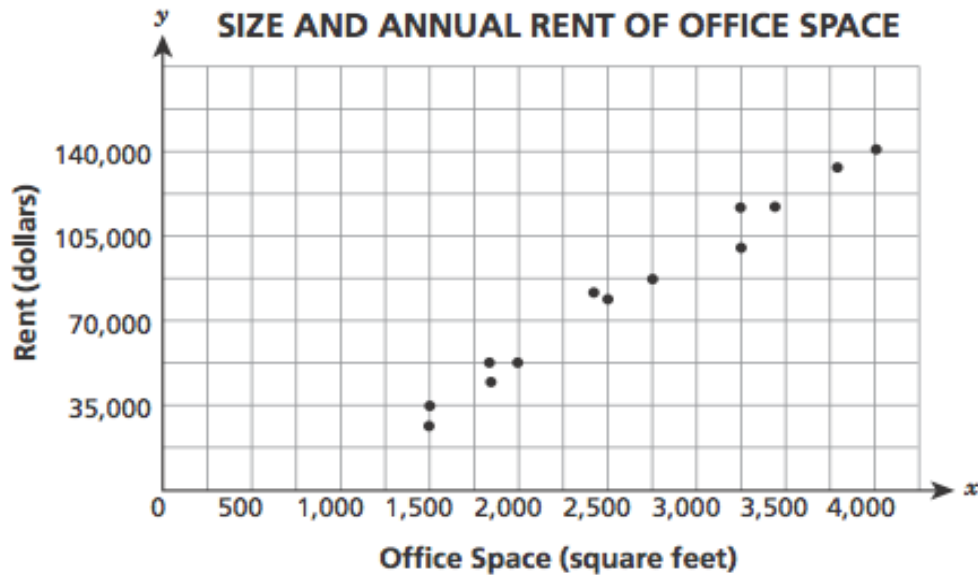

C

B

D

Topic No. 01

Question 2

The scatter plot shows the sizes and annual rents of some office spaces in the downtown area of a city.

SIZE AND ANNUAL RENT OF OFFICE SPACE

What would the line of best fit reveal about these data?

A There is a strong negative relationship between the cost of rent and the size of the office space.

B There is a strong positive relationship between the cost of rent and the size of the office space.

C There is a weak positive relationship between the cost of rent and the size of the office space.

D There is a weak negative relationship between the cost of rent and the size of the office space.
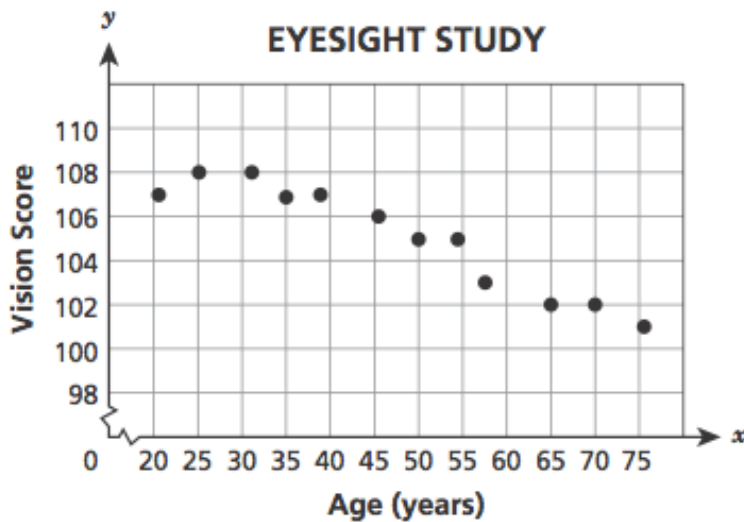
Topic No. 01

Question 3

A researcher studied the eyesight of people at different ages. She calculated a vision score for each person in the study and plotted the data on the graph below.

The researcher used the line y = -0.1x + 110 to model the data. When she substituted the value x = 65 into this equation, what did the result tell her?

A. the exact value for the vision score of a 65-year-old

B. the predicted value for the vision score of a 65-year-old

C. the minimum possible value for the vision score of a 65-year-old

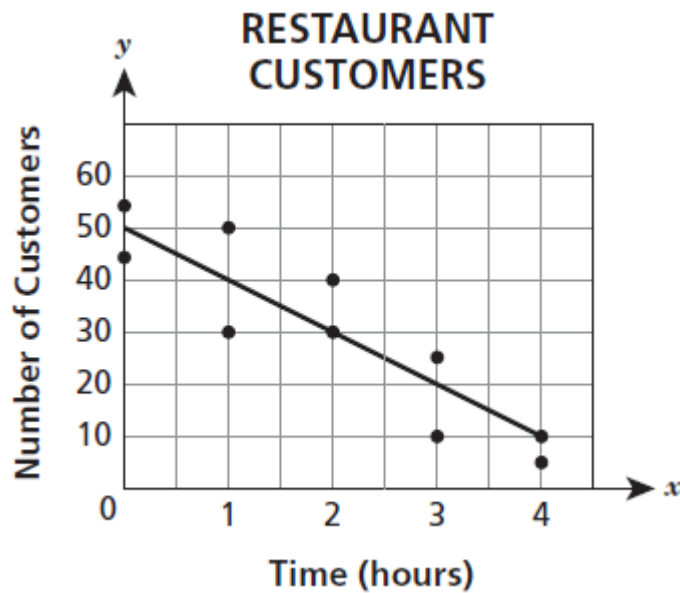D. the maximum possible value for the vision score of a 65-year-old

HOT

#1

Question 4

The scatter plot below shows the numbers of customers in a restaurant for four hours of the dinner service on two different Saturday nights. The line shown models this relationship, and x = 0 represents 7 p.m.

What does the value of the y-intercept represent?

A. the average number of customers at 7 p.m.

B. the average number of customers at 11 p.m.

C. the average change in the number of customers each hour

D. the average change in the number of customers during four hours of the dinner service