Lesson Practice

Choose the correct answer.

1. Which of these lines best fits the given data? Explain your answer.
   
   A. 
   
   ![Graph A](image)
   
   B. 
   
   ![Graph B](image)
   
   C. 
   
   ![Graph C](image)
   
   D. 
   
   ![Graph D](image)

2. The scatter plot compares the number of grams of fat to the number of calories in some foods. A line of best fit has been drawn for these data.

   ![Graph](image)

   Which statement is true about the line of best fit drawn above?
   
   A. The line comes close to most points, so it is a very good model for the data.
   
   B. The line shows the correct association, but it does not come close to most points.
   
   C. The scatter plot shows no association, so a line should not be used to model the data.
   
   D. The data do not resemble a straight line, so a nonlinear model would be better for these data.
3. The scatter plot shows the airfares paid and the distances that customers traveled. A line of best fit has been drawn for these data.

Based on the data in the scatter plot, which is the best prediction for the cost of a 100-mile trip?

A. $75  
B. $100  
C. $175  
D. $250

4. The scatter plot below compares students' heights to the number of text messages they send daily. What would be the best prediction of the number of text messages sent by a student who is 68 inches tall?

A. 20  
B. 45  
C. 110  
D. The scatter plot shows no association, so it is not possible to make a prediction.

5. The scatter plot below shows the attendance at a sports team's away games. What would be the best prediction of the number of fans who would attend an away game if they had to travel 33 miles?

A. 360  
B. 400  
C. 440  
D. The scatter plot shows no association, so it is not possible to make a prediction.
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1. Which of these lines best fits the given data? Explain

   A.

   ![Graph A]

   B.

   ![Graph B]

   C.

   ![Graph C]

   D.

   ![Graph D]

2. The scatter plot compares the number of grams of fat to the number of calories in some foods. A line of best fit has been drawn for these data.

   ![Scatter Plot]

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