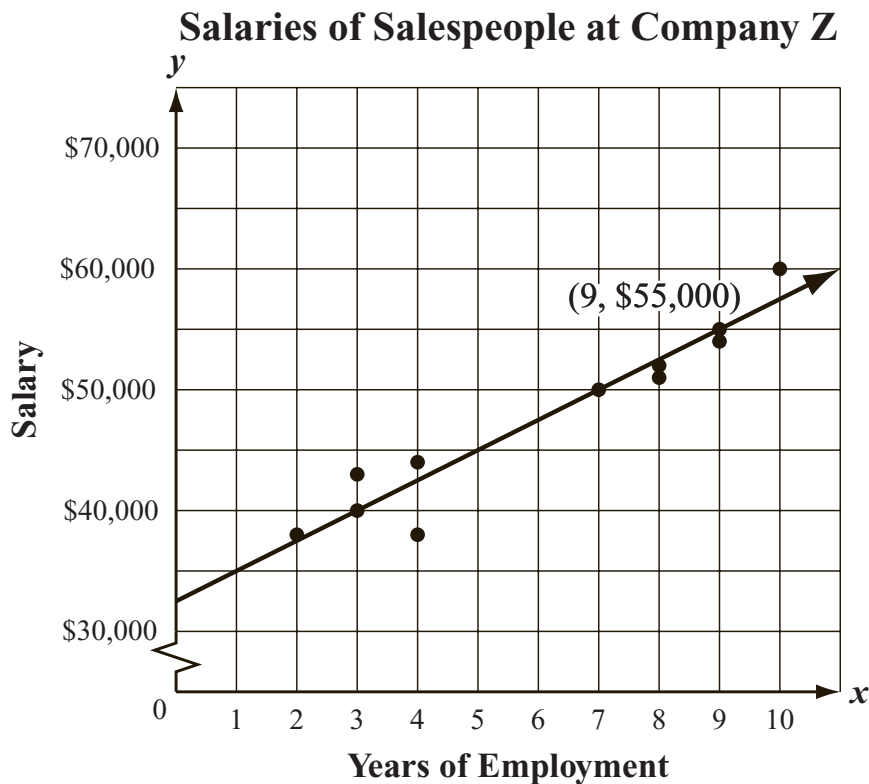**11** Tony collected data on the years of employment and the annual salaries of the salespeople at Company Z. He made a scatterplot and drew a trend line that approximated the line of best fit for the data, as shown below.

Salaries of Salespeople at Company Z

a. Based on the trend line drawn for the data, what is the salary a salesperson with 3 years of employment at Company Z can expect to earn? Show or explain how you got your answer.

b. What is the slope of the trend line that Tony drew? Show or explain how you got your answer.

c. What does the slope mean in this situation?

Tony expects his salary to be about $70,000 after he has been employed as a salesperson at Company Z for 15 years.

d. Use the trend line and your answer from part (b) to explain why Tony's salary expectation is reasonable.