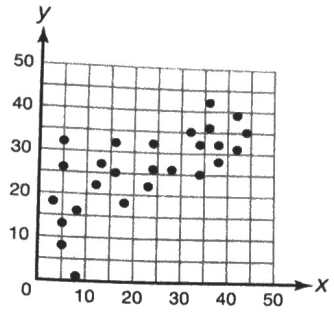
18. A scatter plot is shown below.



Which best represents the line of best fit and a predicted y-value at $x = 50$?

A. $y = \frac{2}{5}x + 20; y = 40$

B. $y = \frac{2}{5}x + 20; y = 20$

C. $y = 2x + 10; y = 40$

D. $y = 2x + 10; y = 20$

19. A record-store owner kept track of his sales over the course of one day. He categorized the sales based on whether the sale was a CD or a record, and he recorded the sales of jazz, classical, and blues records. He recorded the conditional frequencies of his sales in the following table.

	Jazz	Classical	Blues	Total
CD	0.05	0.20	0.13	0.38
Record	0.28	0.02	0.32	0.62
Total	0.33	0.22	0.45	1.00

Based on the conditional frequencies, which of the following is most likely true?

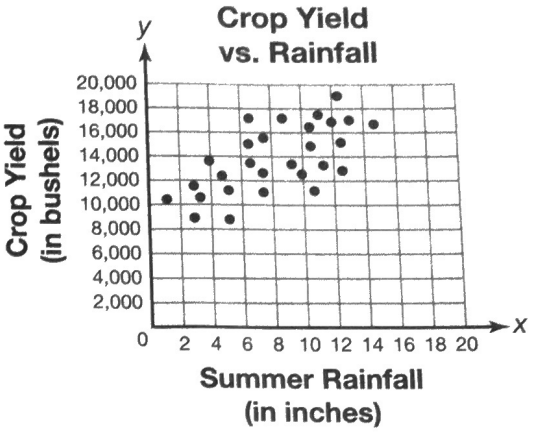
A. If there were total 100 sales in one day, 5 of those would be blues CDs.

B. If there were total 100 sales in one day, 28 of those would be jazz records.

C. If there were total 100 sales in one day, 62 of those would be CDs.

D. If there were total 100 sales in one day, 20 of those would be classical records.

20. A farm agency's staff tracked the amount of rainfall that farms of similar size and crop type experienced during one summer. They also measured that season's crop yield. The staff recorded these findings on the scatter plot below.



Which conclusion about the relationship between the two variables in the scatter plot is most likely true?

A. Increased rainfall is strongly correlated with an increase in crop yield.

B. Increased rainfall is not correlated with an increase in crop yield.

C. Decreased rainfall is strongly correlated with an increase in crop yield.

D. Decreased rainfall is weakly correlated with an increase in crop yield.

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