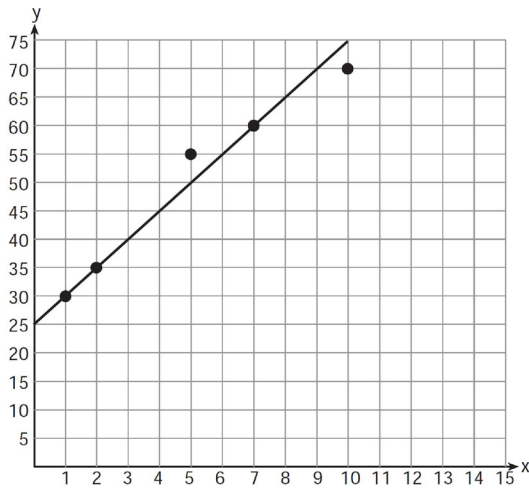


A.S.8: Scatter Plots: Construct manually a reasonable line of best fit for a scatter plot and determine the equation of that line

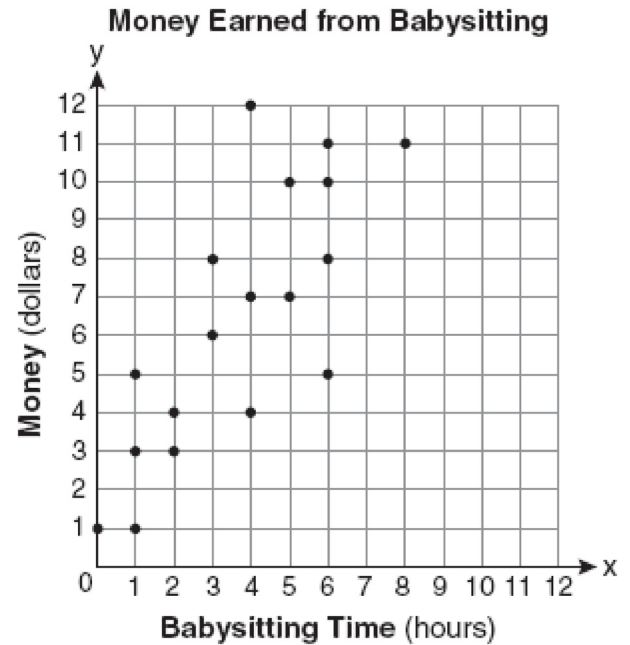
- 1 A scatter plot was constructed on the graph below and a line of best fit was drawn.



What is the equation of this line of best fit?

- 1) $y = x + 5$
- 2) $y = x + 25$
- 3) $y = 5x + 5$
- 4) $y = 5x + 25$

- 2 Which equation most closely represents the line of best fit for the scatter plot below?



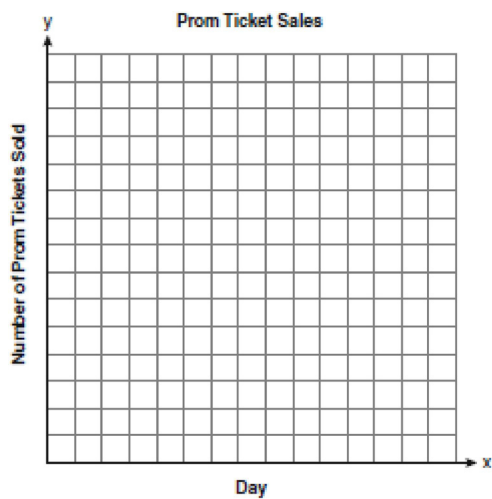
- 1) $y = x$
- 2) $y = \frac{2}{3}x + 1$
- 3) $y = \frac{3}{2}x + 4$
- 4) $y = \frac{3}{2}x + 1$

- 3 The table below shows the number of prom tickets sold over a ten-day period.

Prom Ticket Sales

Day (x)	1	2	5	7	10
Number of Prom Tickets Sold (y)	30	35	55	60	70

Plot these data points on the coordinate grid below.
Use a consistent and appropriate scale. Draw a reasonable line of best fit and write its equation.



A.S.8: Scatter Plots: Construct manually a reasonable line of best fit for a scatter plot and determine the equation of that line
Answer Section

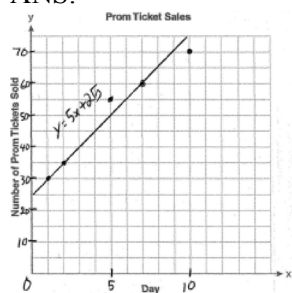
1 ANS: 4 REF: 011229ia

2 ANS: 4



REF: 080822ia

3 ANS:



REF: 060936ia