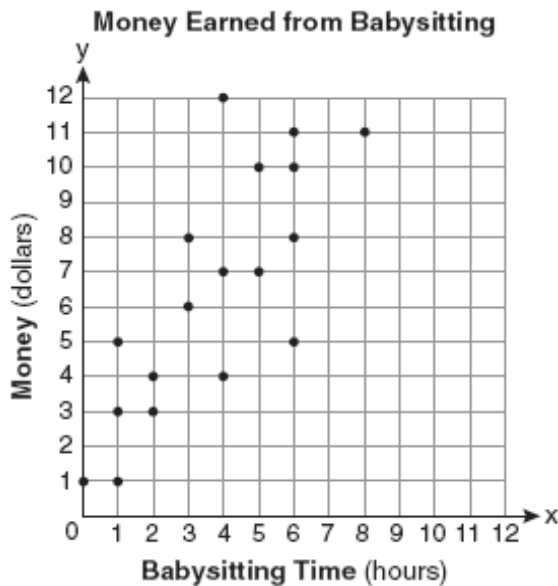


NAME: _____

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

1. 080822ia, P.I. A.S.8

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



[A] $y = x$ [B] $y = \frac{3}{2}x + 1$

[C] $y = \frac{2}{3}x + 1$ [D] $y = \frac{3}{2}x + 4$

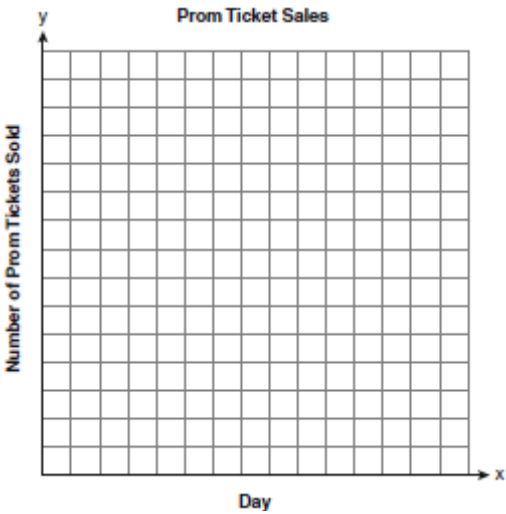
2. 060936ia, P.I. A.S.8

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: Construct manually a reasonable line of best fit for a scatter plot and determine the equation of that line.

[1] B _____

[3] The data are plotted correctly, an appropriate line of best fit is drawn, and its equation is stated.

[2] The data are plotted incorrectly, but an appropriate line of best fit is drawn, and an appropriate equation is stated.

or [2] The data are plotted correctly, but an incorrect line of best fit is drawn, but an appropriate equation is stated.

or [2] The data are plotted correctly, and an appropriate line of best fit is drawn, but its equation is not stated or is stated incorrectly.

[1] The data are plotted correctly, but no further correct work is shown.

or [1] The data are plotted incorrectly, but an appropriate line of best fit is drawn, but no further correct work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[2] _____
incorrect procedure.