Name _____   Date _____

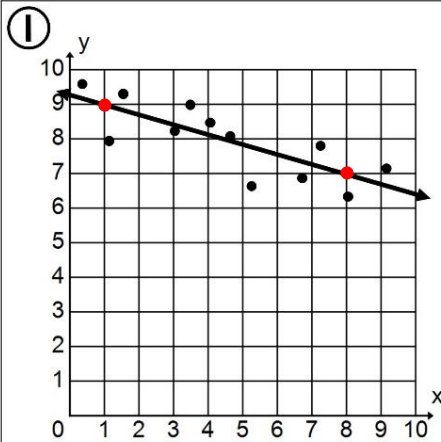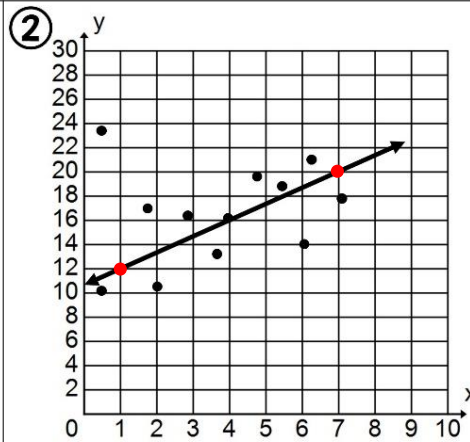## SCATTER PLOTS: Line of Best Fit
Write the Slope-Intercept Form equation of the trend line of each scatter plot.
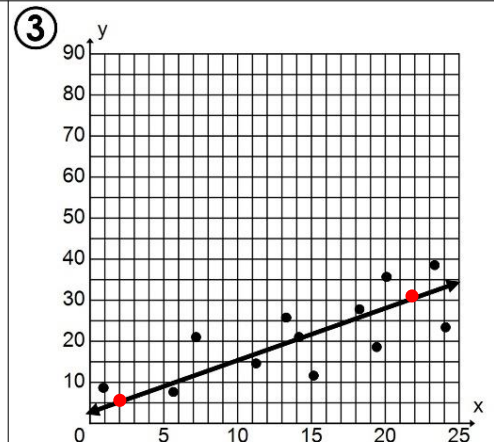
①

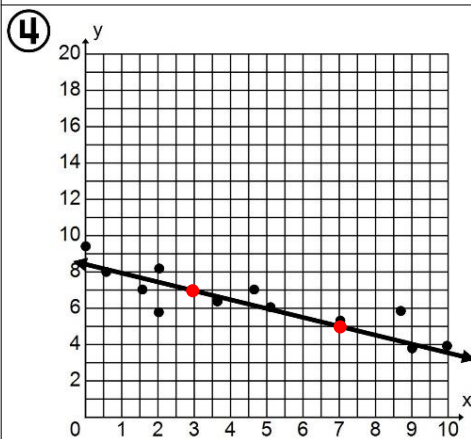Equation of the trend line:

$$y = -0.29x + 9.29$$

②

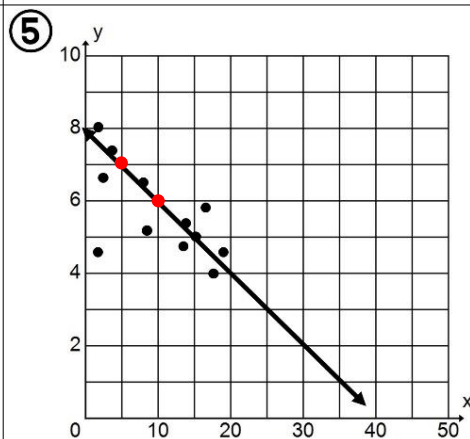Equation of the trend line:

$$y = 1.33x + 10.67$$

③

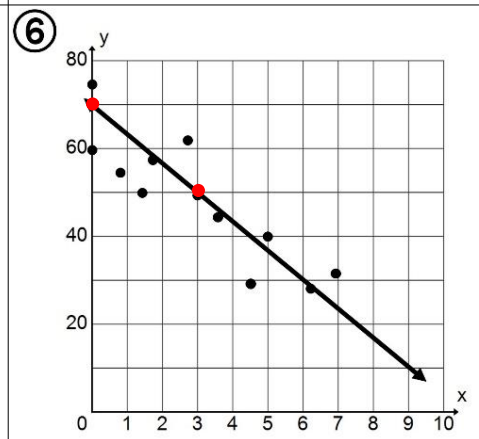Equation of the trend line:

$$y = 1.25x + 2.5$$

④

Equation of the trend line:
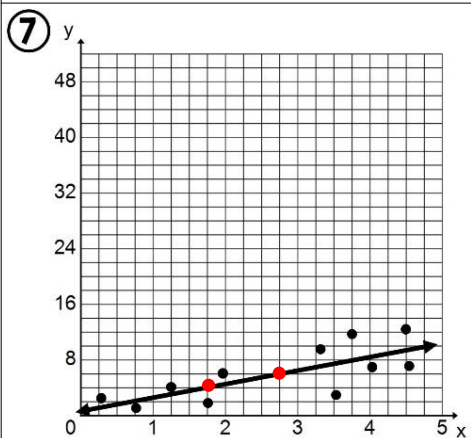
$$y = -0.5x + 8.5$$

⑤

Equation of the trend line:
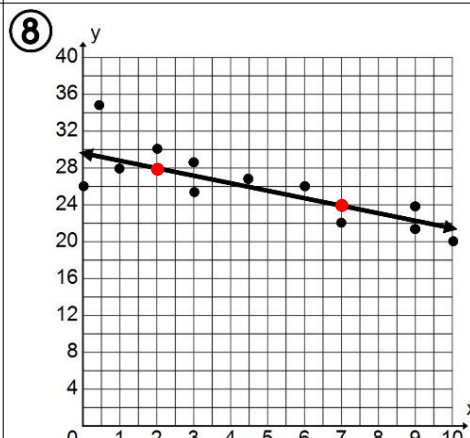
$$y = -0.2x + 8$$
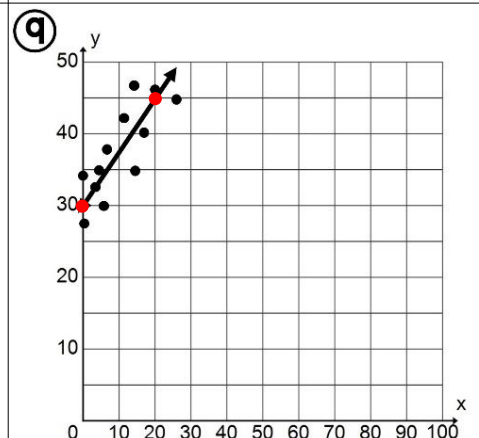
⑥

Equation of the trend line:

$$y = -6.67x + 70$$

⑦

Equation of the trend line:

$$y = 2x + 0.5$$

⑧

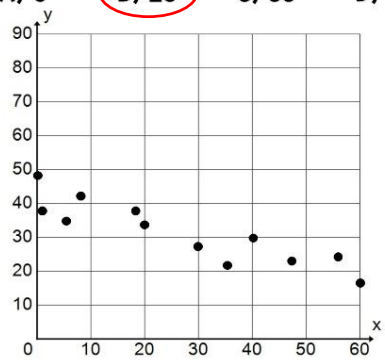Equation of the trend line:

$$y = -0.8x + 29.6$$

⑨

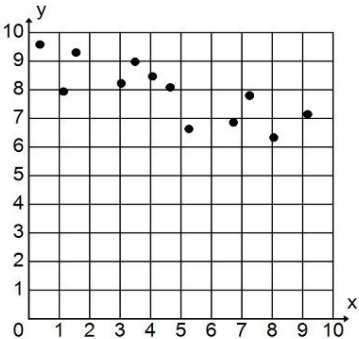
Equation of the trend line:

$$y = 0.75x + 30$$

⑩ Based on the scatter plot, predict the value of x when y = 32.

A) 6   **B) 23**   C) 38   D) 11
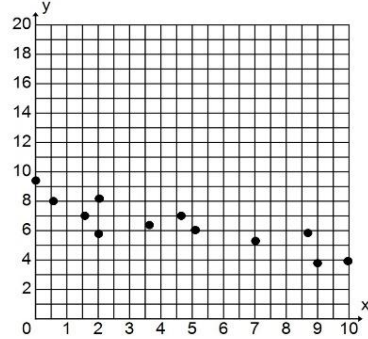

⑪ Based on the scatter plot, predict the value of y when x = 6.
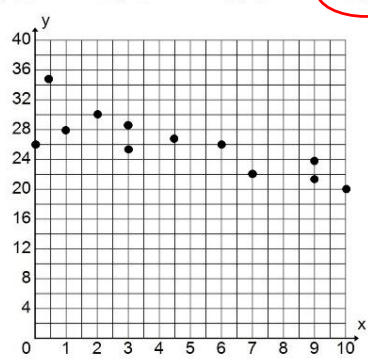
A) 5   B) 1   C) 10   **D) 7**

⑫ Based on the scatter plot, predict the value of x when y = 5.

A) 9   B) 2   **C) 6**   D) 12
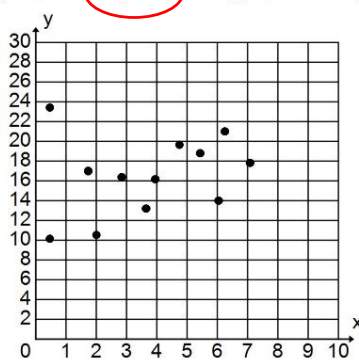

⑬ Based on the scatter plot, predict the value of x when y = 20.
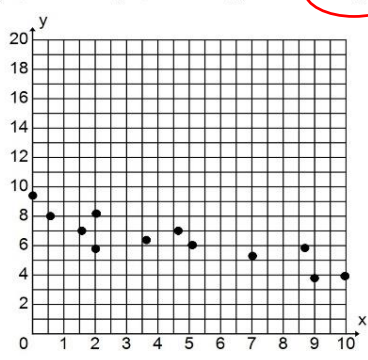
A) 12   B) 2   C) 6   **D) 8**

⑭ Based on the scatter plot, predict the value of y when x = 1.

A) 23   **B) 12**   C) 10   D) 17

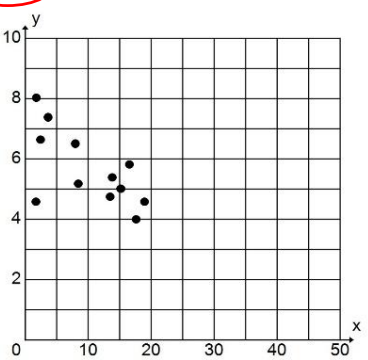
⑮ Based on the scatter plot, predict the value of x when y = 8.
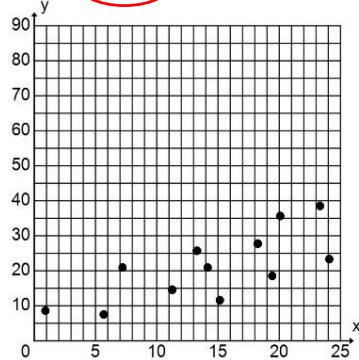
A) 5   B) 10   C) 4   **D) 1**

⑯ Based on the scatter plot, predict the value of y when x = 5.

A) 7   B) 15   C) 8   D) 4

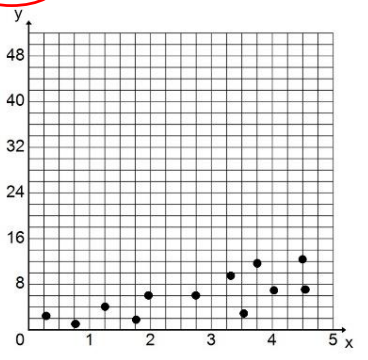
⑰ Based on the scatter plot, predict the value of x when y = 10.
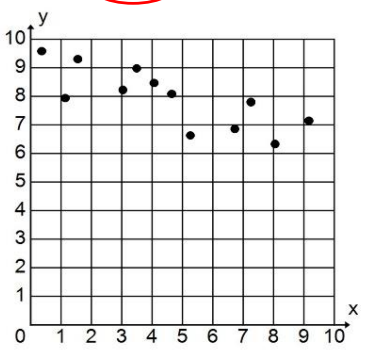
A) 15   **B) 4**   C) 20   D) 1

⑱ Based on the scatter plot, predict the value of y when x = 4.
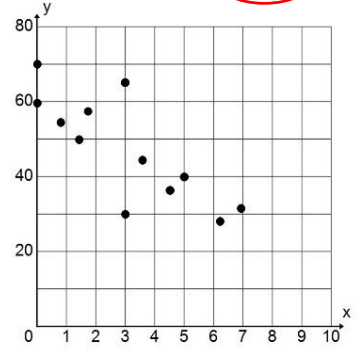
A) 8   B) 1.25   C) 3.5   D) 14

⑲ Based on the scatter plot, predict the value of x when y = 9.

A) 7   **B) 0**   C) 3.5   D) 6

⑳ Based on the scatter plot, predict the value of y when x = 3.

A) 65   B) 30   **C) 45**   D) 13

㉑ Based on the scatter plot, predict the value of x when y = 40.

A) 46   B) 12   **C) 25**   D) 35