

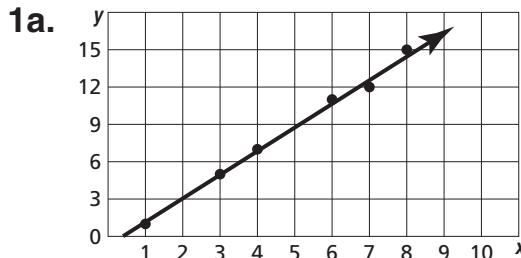
2-5 Skills Practice**Scatter Plots and Lines of Regression**

For Exercises 1–3, complete parts a–c.

- Make a scatter plot and a line of fit, and describe the correlation.
- Use two ordered pairs to write a prediction equation.
- Use your prediction equation to predict the missing value.

1.

x	y
1	1
3	5
4	7
6	11
7	12
8	15
10	?

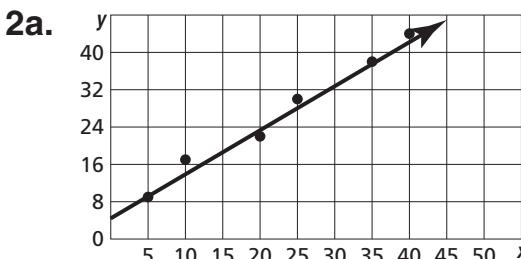


Positive Correlation

- 1b. Sample answer using (1, 1) and (8, 15): $y = 2x - 1$
 1c. Sample answer: 19

2.

x	y
5	9
10	17
20	22
25	30
35	38
40	44
50	?

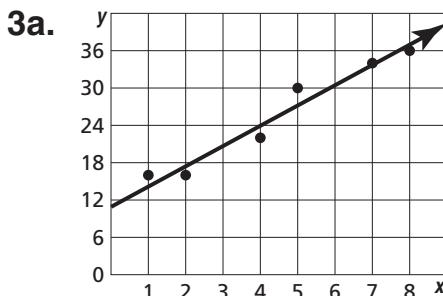


Positive Correlation

- 2b. Sample answer using (5, 9) and (40, 44): $y = x + 4$
 2c. Sample answer: 54

3.

x	y
1	16
2	16
3	?
4	22
5	30
7	34
8	36



Positive Correlation

- 3b. Sample answer using (2, 16) and (7, 34): $y = 3.6x + 8.8$
 3c. Sample answer: 19.6