# FLUENCY PRACTICE: Making Scatter Plots
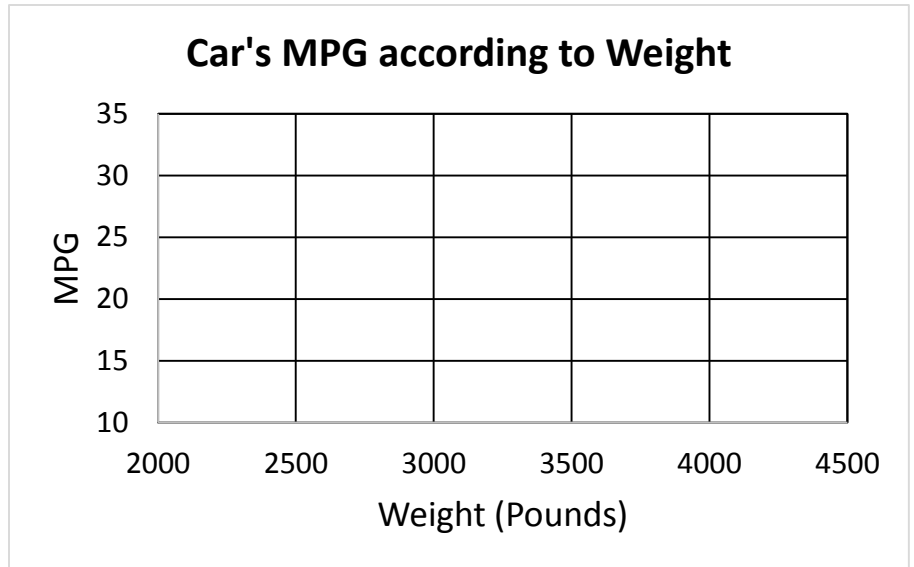
Name:_____                    Period:_____

1. Make a scatter plot for the table below. Then find the line of best fit for the scatter plot to the right.

| Car | Weight (Pounds) | Average MPG |
|-----|-----------------|-------------|
| #1 | 2750 | 29 |
| #2 | 3125 | 23 |
| #3 | 2100 | 33 |
| #4 | 4082 | 18 |
| #5 | 2690 | 20 |
| #6 | 3640 | 21 |
| #7 | 4380 | 14 |
| #8 | 2241 | 25 |
| #9 | 2895 | 31 |
| #10 | 3659 | 17 |

**Car's MPG according to Weight**

MPG (y-axis): 10, 15, 20, 25, 30, 35

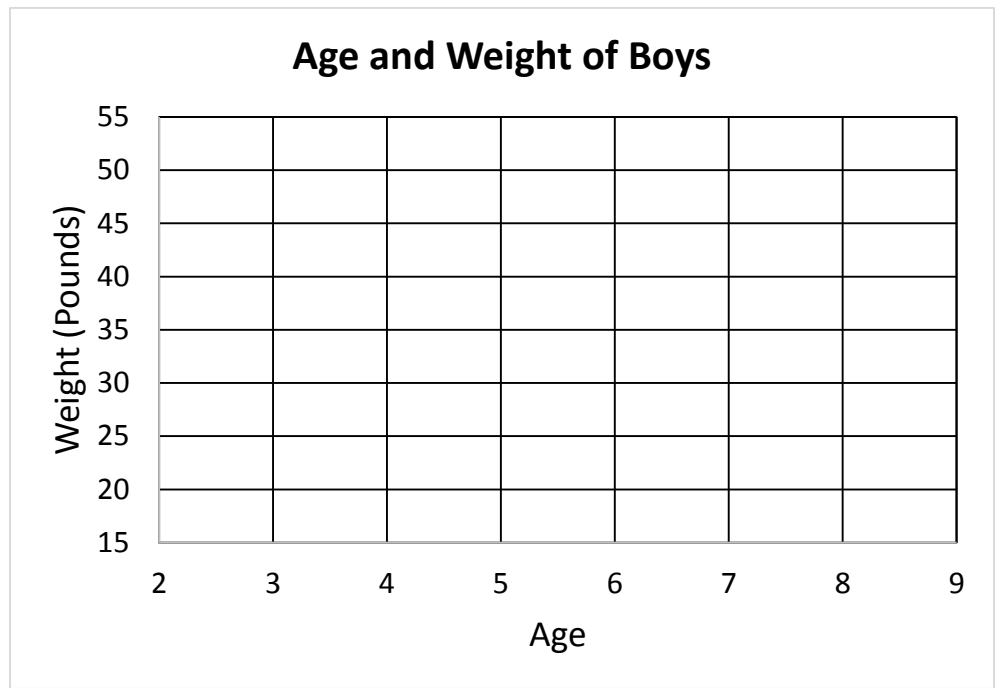Weight (Pounds) (x-axis): 2000, 2500, 3000, 3500, 4000, 4500

What is the linear function of the line of best fit? Show all work.

What might be the MPG of a car that weighs 5000 pounds? Show all work.

What might the weight of car be if its MPG is 40? Show all work.

2. Make a scatter plot for the table below. Then find the line of best fit for the scatter plot to the right.

| Age | Weight (Pounds) |
|---|---|
| 2 | 20 |
| 6 | 35 |
| 3 | 25 |
| 5 | 27 |
| 4 | 29 |
| 9 | 51 |
| 5 | 33 |
| 8 | 48 |
| 4 | 33 |
| 2 | 18 |
| 6 | 39 |
| 3 | 28 |
| 5 | 31 |

**Age and Weight of Boys**

Weight (Pounds): 55, 50, 45, 40, 35, 30, 25, 20, 15

Age: 2, 3, 4, 5, 6, 7, 8, 9

What is the linear function of the line of best fit? Show all work.

How old might a 75 pound boy be? Show all work.

What might be the weight of a 10 year old boy? Show all work.