A ratio shows a relationship between two quantities.

Ratios are equivalent if they can be written as the same fraction in lowest terms.

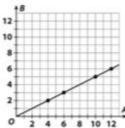
A rate is a ratio that shows the relationship between two different units of measure in lowest terms.

You can make a table of equivalent ratios. You can graph the equivalent ratios.

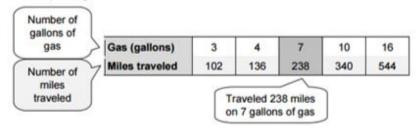
A	4	6	10	12
В	2	3	5	

$$\frac{4}{2} = \frac{2}{1}$$
 $\frac{6}{3} = \frac{1}{3}$

$$\frac{10}{5} = \frac{2}{1}$$
 $\frac{12}{6} = \frac{2}{1}$



Tables help us organize information.



Use the columns to write ratios.

$$\frac{\text{gas}}{\text{miles}} = \frac{7}{238}$$

$$\frac{\text{miles}}{\text{gas}} = \frac{238}{7}$$

Use the ratios to write ordered pairs.

$$\frac{7}{238} \longrightarrow (7, 238)$$

Problem 1

The table shows the cost of cereal and the amount of cereal for each amount of money. Write the ratios of ounces to cost.

Cereal (oz)	8	32	48	64	96
Cost	\$1	\$4	\$6	\$8	\$12

$$\frac{\text{ounces}}{\text{cost}} = \frac{8}{\$1} = \frac{32}{\$4} = \frac{48}{\$6} = \frac{64}{\$8} = \frac{96}{\$12}$$

Problem 2

Write the ratios as ordered pairs. Graph the ordered pairs and draw the line.

