Applications of Proportions.

Suppose a car travels at 65 miles per hour.

How many miles will the car travel in 7 hours?

Note: 65 mph means $\frac{65}{1}\ \frac{\text{miles}}{\text{hour}}$

$\frac{65}{1}\ \frac{\text{miles}}{\text{hour}} = \frac{x}{7}\ \text{miles}$

$$\frac{65}{1} = \frac{x}{7}$$

$=$

On a road map, the scale indicates that 1 inch represents 70 miles.

Note: This means that the ratio of inches to miles is $\frac{1}{70}$ ——

If the measured distance between two cities on the map is 8 ¾ inches, how many miles apart are they?

Note: 8 ¾ = 8.

$\frac{1}{70}\ \frac{\text{in}}{\text{mi}} = \frac{\quad}{\quad}\ \frac{\quad}{\quad}$

$\frac{1}{70} = \frac{\quad}{\quad}$

$x =$

$x =$

A traveling salesman is paid \$0.22 for every mile he travels using his personal vehicle.

Note: This means that the ratio of dollars to miles is $\frac{0.22}{1}$ ———

If the salesman traveled 473 miles last month, how much money does he receive for his travel?

$\frac{0.22}{1}\ \frac{\text{dollars}}{\text{mi}} = \frac{\quad}{\quad}\ \frac{\quad}{\quad}$

$\frac{0.22}{1} =$

$=$

$x =$