NOTE SHEET - Examples of problems using rates

Given 1 foot = 12 inches. Rate →

How many inches in 24 feet?

work
$$\rightarrow$$
 24 x 12 \div 1 \rightarrow 4 mover 288 \div 1 = 288 inches

How many feet in 24 inches? 424 inches $\times \frac{1}{12}$ inches work > 24 x 1 = 12 Answer
24 = 12 = 2 feet

A car gets 25 miles per gallon of gasoline. Rate
$$\Rightarrow \frac{25 \text{ miles}}{1 \text{ of } 1 \text{ or } 25 \text{ miles}}$$

How many gallons are needed to travel 100 miles?

Set
$$\rightarrow$$
 100 miles $\times \frac{1 \text{ gallem}}{25 \text{ males}}$

How far can it travel on 100 gallons of

work
$$\rightarrow 100 \times 25 \div 1$$
 Answer $2500 \div 1 = 2,500 \text{ miles}$

You get paid \$12 an hour. Rate
$$\rightarrow \frac{$12}{1 \text{ hour}}$$
 or $\frac{1 \text{ how}}{$12}$

How many hours do you need to work to make \$48?

Set
$$\rightarrow$$
 \$48 \times $\frac{1 \text{ how}}{$12}$

Work \rightarrow $\frac{48 \times 1 \div 12}{12} = \frac{4 \text{ hours}}{4 \text{ hours}}$

How much would you get paid for 48 hours of work?

work
$$\Rightarrow$$
 $\frac{48 \times 12 \div 1}{576 \div 1} = \frac{49 \times 12 \div 1}{8576}$

1. Rate $\Rightarrow \frac{3 \text{ oranges}}{81}$ or $\frac{41}{3 \text{ orange}}$

Oranges are being sold at a price of 3 for \$1.

Rate
$$\rightarrow \frac{3 \text{ oranges}}{\$1}$$

How much would 15 oranges cost?

Work
$$15 \times 1 \div 3$$
 Answer $15 \div 3 = 5

How many oranges can you get for

