

# Ratios

- comparison
- you must have same units

1. a) Write as a ratio

\$8 to \$3

8:3

OR

W/R

\$2 to 75¢

200¢ to 75¢

200 : 75

Simplify



8:3

$$\begin{array}{l} \times 100 \\ 0.03 : 0.12 \\ \times 100 \end{array}$$

Multiply by 100

$$\begin{array}{l} 3 : 12 \\ \div 3 \quad \div 3 \end{array}$$

$$1 : 4$$

$$\frac{1}{4}$$

£3 to 50 pence

£3 to £.50

$$\begin{array}{l} 3 : 5 \\ \times 10 \quad \times 10 \end{array}$$

$$30 : 5$$

$$6 : 1$$

$$\begin{array}{l} 1 \text{ km} = 1000 \text{ m} \\ 9 \text{ km} = 9000 \text{ m} \\ 2.5 \text{ km} = 2500 \text{ m} \\ 1 \text{ L} = 1000 \text{ mL} \end{array}$$

$$3 \text{ L} = 3000 \text{ mL}$$

Solve with ratios

$$16 : 4 = 12 : x$$

$$\frac{16x}{16} = \frac{48}{16}$$
$$x = 3$$

$$\frac{16}{4} = \frac{12}{x}$$

$$\frac{16x}{16} = \frac{48}{16}$$
$$x = 3$$

$$\square = x$$

Do 1-5