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Navigation Maths >  **Ratios for Fuel**

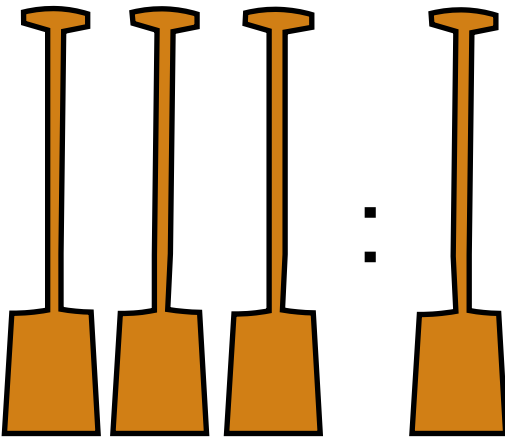
Two stroke oil and fuel are mixed for two stroke engines.

Mariners use ratios to mix fuel.

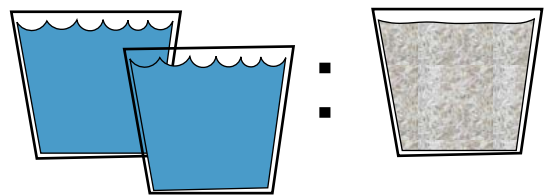


A ratio compares one amount to another.

Each unit must be the same.



Shovels
Sand : Cement
3:1



Cups
Water : Rice
2:1



Litres
Fuel : Oil
25:1

Use ratios to mix fuel

1. How much fuel do you want to mix?
2. What is the ratio of Fuel to oil?

Fuel to oil ratio is in the manufacturers instructions.

Fuel 50 litres
Fuel to oil ratio 50:1

Divide fuel by 50

$$50 \div 50 = 1$$

Add 1 litre of oil

Fuel 50 litres
Fuel to oil ratio 25:1

Divide fuel by 25

$$50 \div 25 = 2$$

Add 2 litres of oil

Fuel 20 litres
Fuel to oil ratio 50:1

Divide fuel by 50

$$20 \div 50 = 0.4$$

Add 0.4 litres of oil

Convert litres to millilitres

Most measuring jugs or cups use millilitres

The symbol for millilitres is ml

Litres L

Millilitres ml

$$1 \text{ Litre} = 1000 \text{ ml}$$

To convert litres to millilitres
x 1000

$$1 \text{ L} \times 1000 = 1000 \text{ ml}$$

$$2 \text{ L} \times 1000 = 2000 \text{ ml}$$

$$0.5 \text{ L} \times 1000 = 500 \text{ ml}$$

$$0.4 \text{ L} \times 1000 = 400 \text{ ml}$$

