

You will need:

- A pencil
- A ruler
- Workbook or paper
- Coloured pen or pencil

**DO NOW** (before your date and title)!

**1)  $\frac{5}{7} \times 6 =$**

**2)  $6230 \div 12 =$**

**3)  $54.2 \div 100 =$**

3 minutes

**DO NOW (before your date and title)!**

**1)  $\frac{5}{7} \times 6 = \frac{30}{7} = 4\frac{2}{7}$**

**2)  $6230 \div 12 = 519 \text{ R}2$**

**3)  $54.2 \div 100 = 0.542$**

3 minutes

01/03/2021

# Imperial Measures

1) Circle the most appropriate unit.

Length can be measured in tonnes / kg / mm

Mass can be measured in tonnes / km / ml

Capacity can be measured in cl / m / cm

2) Complete the conversions.

$$200 \text{ ml} = \underline{\hspace{2cm}} \text{ l}$$

$$85 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$$

$$20 \text{ ml} = \underline{\hspace{2cm}} \text{ l}$$

$$85 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$$

1) Circle the most appropriate unit.

Length can be measured in tonnes / kg / mm

Mass can be measured in tonnes / km / ml

Capacity can be measured in cl / m / cm

2) Complete the conversions.

$$200 \text{ ml} = \underline{0.2} \text{ l}$$

$$20 \text{ ml} = \underline{0.02} \text{ l}$$

$$85 \text{ cm} = \underline{850} \text{ mm}$$

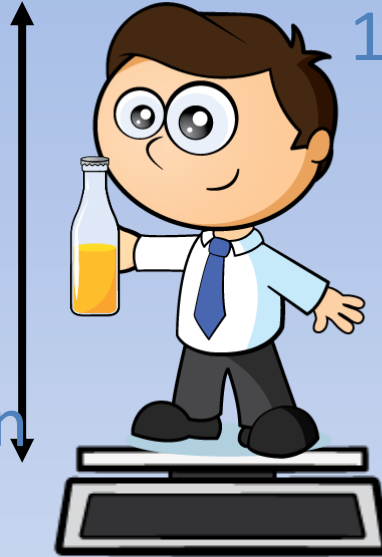
$$85 \text{ cm} = \underline{0.85} \text{ m}$$

16 ounces = 1 pound

14 pounds = 1 stone

Feet and inches  
Pints

8 pints = 1 gallon



Pounds and ounces

12 inches = 1 foot

1 inch  $\approx$  2.5 cm

1 foot = 12 inches Have a think



Feet	Inches
1	12
2	24
<input type="text"/>	36
5	<input type="text"/>
10	<input type="text"/>
<input type="text"/>	144
16	<input type="text"/>

$\times 3$   $\times 3$



1 foot = 12 inches

Feet	Inches
1	12
2	24
3	36
5	
10	
	144
16	

Diagram illustrating the conversion of feet to inches. The table shows the relationship between feet and inches, with arrows indicating multiplication factors:

- From 1 foot to 5 feet:  $\times 5$
- From 5 feet to 10 feet:  $\times 2$
- From 12 inches to 36 inches:  $\times 3$
- From 36 inches to 144 inches:  $\times 4$

# Your turn

## Imperial measures

1 Sort the measures into the table.

The first one has been done for you.

gram	pound	ounce	foot
kilogram	centimetre	inch	stone
gallon	millilitres	litres	kilometres

	Metric	Imperial
Mass	gram	
Capacity		
Length		

2 Fill in the missing numbers.

a) 1 foot is equal to  inches.

1 inch is approximately  centimetres.

b) 1 pound is equal to  ounces.

1 stone is equal to  pounds.

c) 1 gallon is equal to  pints.

3 Complete the conversions.

a) 1 foot =  inches

2 feet =  inches

10 feet =  inches

20 feet =  inches

15 feet =  inches

b) 1 gallon =  pints

gallons = 40 pints

gallons = 48 pints

gallons = 960 pints

# Your turn

- 1 Sort the measures into the table.

The first one has been done for you.

gram	pound	ounce	foot
kilogram	centimetre	inch	stone
gallon	millilitres	litres	kilometres

	Metric	Imperial
Mass	gram kilogram	pound ounce stone
Capacity	millilitres litres	gallon
Length	centimetre kilometres	foot inch

- 2 Fill in the missing numbers.

a) 1 foot is equal to  inches.

1 inch is approximately  centimetres.

b) 1 pound is equal to  ounces.

1 stone is equal to  pounds.

c) 1 gallon is equal to  pints.

- 3 Complete the conversions.

a) 1 foot =  inches

2 feet =  inches

10 feet =  inches

20 feet =  inches

15 feet =  inches

b) 1 gallon =  pints

gallons = 40 pints

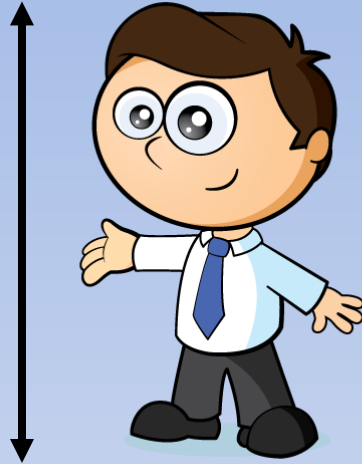
gallons = 48 pints

gallons = 960 pints

Have a think



5 feet  
and 8 inches



1 foot = 12 inches

How tall is Mr. Jones in inches?

1 foot = 12 inches

Have a think



5 feet and 8 inches

Approximately, how tall is Mr. Jones in cm?

1 inch  $\approx$  2.5 cm

## Your turn

- 4 The world's tallest man was 8 feet and 11 inches tall.  
a) What was his height in inches?

inches

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- b) Approximately how tall was he in centimetres?

cm

## Your turn

- 4 The world's tallest man was 8 feet and 11 inches tall.  
a) What was his height in inches?

107 inches

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- b) Approximately how tall was he in centimetres?

271.78 cm

1 pound = 16 ounces

Pounds	Ounces
1	16
3	48
<input type="text"/>	80
9	<input type="text"/>
14	<input type="text"/>
<input type="text"/>	320

Diagram illustrating the conversion of pounds to ounces. The table shows the relationship between pounds and ounces, with a multiplier of 5 indicated on both sides. The multiplier  $\times 5$  is shown on the left and right sides of the table, with arrows pointing from the multiplier to the corresponding cells in the table.

14 pounds = 1 stone

Have a think

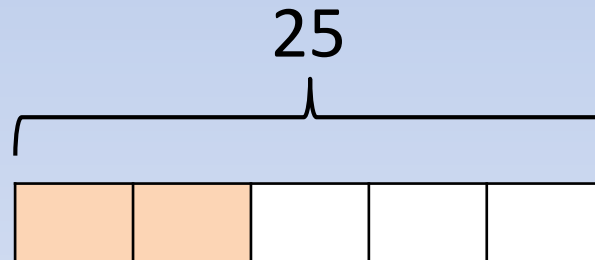




A school buys 25 gallons of water as it's expected to be a hot day for Sports Day.

Key Stage 1 have  $\frac{2}{5}$  of the water and Key Stage 2 have the rest.

How many pints of water does Key Stage 2 have?



Have a think



## Your turn

5

1 pound = 16 ounces

1 stone = 14 pounds

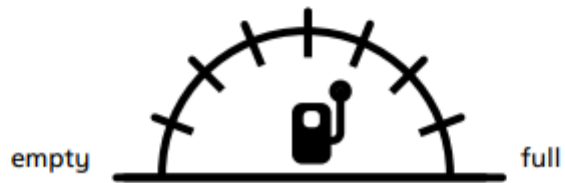
Given these facts, how many ounces are in 1 stone?

6

Mr White's car has a fuel tank that can hold 16 gallons of petrol.

a) His tank is a quarter full.

Draw an arrow to show how much petrol is in his tank.



b)



Mr White needs another 96 pints of petrol to fill his tank.

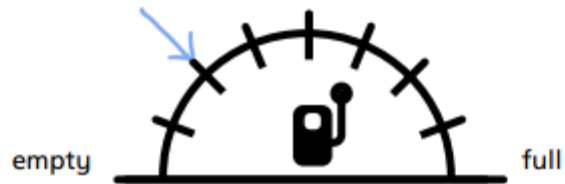
Is Annie correct? \_\_\_\_\_

Show your working out to support your answer.

## Your turn

- 6 Mr White's car has a fuel tank that can hold 16 gallons of petrol.  
a) His tank is a quarter full.

Draw an arrow to show how much petrol is in his tank.



b)



Mr White needs another 96 pints of petrol to fill his tank.

Is Annie correct? yes

Show your working out to support your answer.

## Final task

Design a poster that could help someone remember the different imperial units and their conversions.

