

Review of metric to imperial measurements

Thursday 2nd of July 2020

You have been given the approximate equivalents for inches and centimetres, ounces and grams, kilograms and pounds and litres and pints. You can use these to calculate different conversions in six multiple-choice questions.

1 star: ready

2 stars: steady

3 stars: go

1 centimetre = 0.4 inches

1 inch = 2.5 centimetres

1 ounce = 30 grams

1 pound = 450 grams

1 pint = 0.6 litres

1 litre = 1.8 pints

Tick the correct answer and show how you worked it out

How many inches are in 2 centimetres?

- 18 inches
- 0.8 inches
- 8 inches

1

How many centimetres are in 5 inches?

- 12.5cm
- 125cm
- 1.25cm

2

How many grams are in 10 ounces?

- 300g
- 30g
- 3000g

3

How many grams are in 5 pounds?

- 2050g
- 225g
- 2250g

4

How many litres are in 3 pints?

- 18l
- 1.8l
- 18.1l

5

How many pints are in 10 litres?

- 180 pints
- 1.8 pints
- 18 pints

6

1 centimetre = 0.4 inches

1 inch = 2.5 centimetres

1 ounce = 30 grams

1 kilogram = 2.2 pounds

Tick the correct answer
and show how you
worked it out

1 litre = 1.8 pints

1 pound = 450 grams

1 pint = 0.6 litres

How many inches are in 10cm?

- 40 inches
- 4 inches
- 1.4 inches

1

How many centimetres are in 6 inches?

- 14cm
- 15cm
- 12cm

2

How many grams are in 20 ounces?

- 560g
- 600g
- 550g

3

How many grams are in 5 pounds?

- 250g
- 225g
- 2250g

4

How many litres are in 15 pints?

- 9l
- 90l
- 0.90l

5

How many pints are in 3l?

- 4.5 pints
- 5.4 pints
- 6.4 pints

6

1 centimetre = 0.4 inches	1 inch = 2.5 centimetres	1 ounce = 30 grams
1 kilogram = 2.2 pounds	Tick the correct answer and show how you worked it out	1 litre = 1.8 pints
1 pound = 450 grams		1 pint = 0.6 litres

How many centimetres are in 20 inches?

5cm
 50cm
 500cm

1

How many inches are in 12.5cm?

5.5 inches
 5 inches
 4 inches

2

How many grams are in 6 ounces?

168g
 180g
 168g

3

How many grams are in 9 pounds?

5040g
 4500g
 4050g

4

How many litres are in 8 pints?

4.8l
 4.6l
 4.7l

5

How many pints are in 25l?

54 pints
 45 pints
 55 pints

6

Some more conversions to try!

Remember, the conversions you need are at the top of the slide!

Capacity

I can use approximate equivalences between metric and imperial units.

1 litre = 1.75 pints or 0.57 litres = 1 pint

Complete this table:

litres	pints
	3.5
5	
1.14	
	3
10	

1 litre = 0.22 gallons or 4.5 litres = 1 gallon

Complete this table:

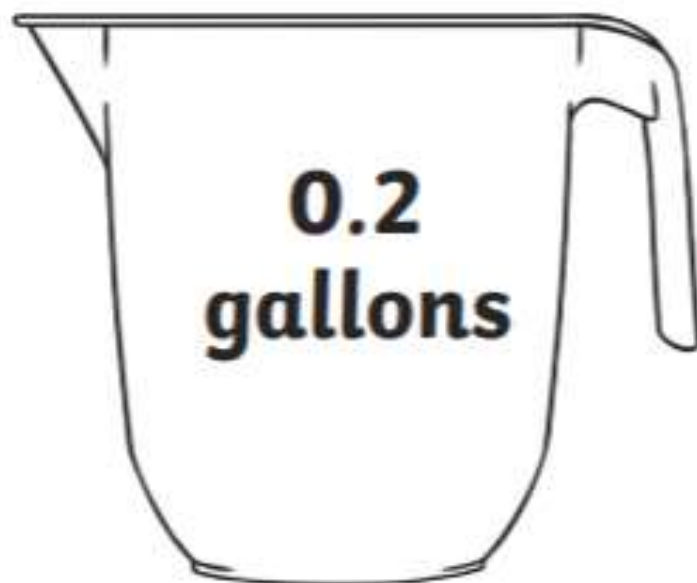
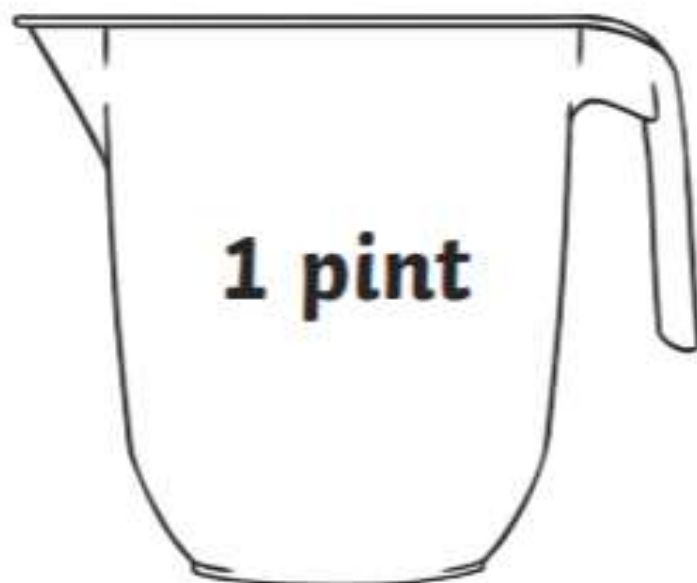
litres	gallons
2	
	0.66
9	
	5
10	

25ml = 1 fl. Oz

Complete this table:

millilitres	fluid ounces
100	
	6
250	
	15
	20

Order these capacities from the smallest to the largest.



Distance and Length

I can use approximate equivalences between metric and imperial units.

2.5 centimetre = 1 inch, 12 inches = 1 foot

Complete this table.

centimetre (cm)	inches (")	feet (')
	2	
7.5		
	4	
		1
90		

Convert these heights between metres and feet and inches.

metres (m)	inches (")	feet and inches (' ")
1.1		
1.25		
		3' 4"
		4' 6"
1.85		6' 2"

Weight and Mass

I can use approximate equivalences between metric and imperial units.

0.45 kilogram = 1 lb (pound), 1 kilogram = 2.2 lb (pounds)

Complete this table.

kilograms (kg)	pounds (lb)
	2
2	
	3
3	
	22

28g = 1oz (ounce)

Tick the conversions that are reasonable.

grams (g)	ounces (oz)	Reasonable
10g	1/2oz	
50g	2oz	
110g	4oz	
180g	8oz	
300g	11oz	

Here are some tins of food. Order from lightest to heaviest.



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Problem solving: These are for anyone to have a go.

Remember...

Read the question

Underline the important pieces of information

Choose the best operations

Solve the problem

Check your answer!

- 1) Convert these measurements from **imperial to metric** using the approximate conversion table.

Imperial Measure	Metric Measure
1 inch	$2\frac{1}{2}$ cm
1lb	454g
1 pint	570 millilitres



7 inches



4lbs



$2\frac{1}{2}$ pints

- 2) Convert these measurements from **metric to imperial** using the approximate conversion table.

Metric Measure	Imperial Measure
1cm	0.4 inch
1kg	2.2lbs
1 litre	$1\frac{3}{4}$ pints



21cm



$4\frac{1}{2}$ kg



3 litres

- 1) Here are the heights of two children.

William is the tallest.

Do you agree with this statement?

Explain your answer.

1 inch - approximately 2.5cm



William	Chen
54 inches	1.34 metres

- 2) Here are the prices of bananas at two different shops.

At which shop are the bananas better value for money?

Explain how you know.

1lb - approximately 454g

Shop A	Shop B
<p>1.9kg - £2.20</p>	<p>4lbs - £2.50</p>

1) Otto, Freddie, Anja and Grace are packing their suitcases for their holidays. Use the clues to work out who each suitcase belongs to.

1lb - approximately 454g

 30lbs Name: _____	 $13\frac{1}{2}$kg Name: _____	 $13\frac{3}{4}$kg Name: _____	 31lbs Name: _____
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- Grace's suitcase is the heaviest.
- Otto's suitcase is the lightest.
- Freddie's suitcase is heavier than Anja's.

2) Otto, Freddie, Anja and Grace are adding toppings to pizzas by choosing two of these different ingredients.

 $\frac{1}{2}$ pound	 $\frac{1}{3}$ pound	 $\frac{1}{3}$ pound	 $\frac{1}{4}$ pound
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Find the mass of each ingredient to the nearest gram.

Find the mass, in grams, of the all of the possible topping combinations that could be added to the pizzas.
