

# Unit Conversions- Questions

Key Stage 2: 2003 Paper A

1.

12



A bottle holds **1 litre** of lemonade.

Rachel fills **5 glasses** with lemonade.

She puts **150 millilitres** in each glass.

How much lemonade is left in the bottle?

Show your **working**.  
You may get a mark.

ml

12i

12ii

2 marks

2.

**14**

Some children ran in two races on sports day.

Here are their times.

	100m race	800m race
Elise	15.9 seconds	3 minutes 02 seconds
Jake	19.7 seconds	2 minutes 58 seconds
Teri	16.8 seconds	3 minutes 01 seconds
Neil	17.1 seconds	2 minutes 59 seconds
Barry	18.4 seconds	2 minutes 57 seconds

Who finished the 100m race in **second** place?

14a

1 mark

In the 800m race, how many seconds did Barry finish ahead of Elise?



14b

1 mark

3.

**19**

A packet contains **1.5 kilograms** of guinea pig food.

Remi feeds her guinea pig **30 grams** of food each day.



How many days does the packet of food last?

Show your **working**.  
You may get a mark.

days

19i

19ii

2 marks

1.

**15**

Write these lengths in order, starting with the shortest.

$\frac{1}{2}$  m

3.5cm

25mm

20cm



shortest



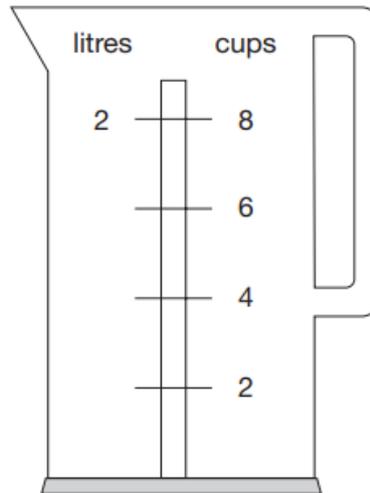
15

1 mark

1.

22

Nisha's kettle holds 2 litres of water.



How many millilitres are equal to 1 cup?



22  
1 mark

1.

21

Here are four pairs of measurements.

For each pair, put a ring around the **larger** measurement.

One has been done for you.

4 centimetres	4 inches
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10 kilometres	10 miles
---------------	----------

2 litres	2 pints
----------	---------

5 grams	5 pounds
---------	----------

1.

**16**

Here are four masses.

2  
kilograms

1  
tonne

800  
grams

$\frac{1}{2}$   
kilogram

Write the masses in order, starting with the lightest.



lightest

16  
1 mark

2.

26

A 5p coin has a diameter of 1.8 centimetres.



Holly makes a straight line of 5p coins worth £10



How long is Holly's line?  
Give your answer in **metres**.

Show  
your  
method

m

26i

26ii

2 marks

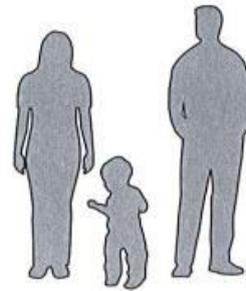
1.

17

Freddie is half as tall as his mother.

Freddie is one metre shorter than his father.

Freddie's father is 180 centimetres tall.



How many centimetres tall is Freddie's mother?



17  
1 mark

1.

12



How many **days** old will the baby be when she has lived for **one million seconds**?

Show  
your  
method

days

2 marks

Key Stage 2: 2016 Paper 2 Reasoning - Sample

1.

**19**

**One gram** of gold costs £32.94

What is the cost of **half a kilogram** of gold?

Show your method



£

2 marks

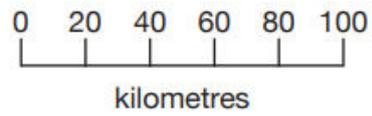


Key Stage 2: 2017 Paper 2 Reasoning

1.

21

On a map, 1 cm represents 20 km.



The distance between two cities is **250 km**.

On the map, what is the distance between the two cities?

Show your method

cm

2 marks

Key Stage 2: 2018 Paper 2 Reasoning

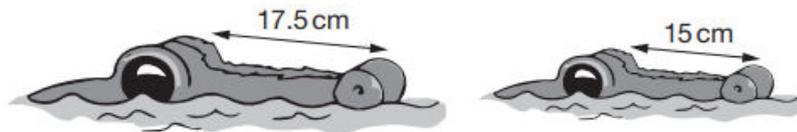
1.

20

The length of an alligator can be estimated by:

- measuring the distance from its eyes to its nose
- then multiplying that distance by 12

What is the **difference** in the estimated lengths of these two alligators?



Not to scale

Show your method

--

cm

2 marks

Key Stage 2: 2019 Paper 2 Reasoning

1.

19

A machine pours 250 millilitres of juice every 4 seconds.

How many **litres** of juice does the machine pour every **minute**?

Show your method

--

litres

2 marks

Key Stage 2: 2019 Paper 3 Reasoning

1.

12

Amina's bed is 190 cm in length and 91 cm in width.

She is making a **one-tenth** scale model of the bed.

What are the length and width of Amina's model?

length =  cm

width =  cm

1 mark

Key Stage 2: 2019 Paper 3 Reasoning

2.

15



The International Space Station orbits the Earth at a height of 250 miles.

What is the height of the International Space Station in **kilometres**?

Use 8 kilometres equals 5 miles.

km

1 mark