

Measuring weight

You will need to know how to read scales and change between units, such as kilograms to grams, for these questions. Good luck!

Time filler:

Weigh a packet of biscuits (it does not matter if they are partly eaten). Write the amount in grams (g) and then again in kilograms (kg). Weigh some vegetables and fruits and record these amounts in grams and then in kilograms, too.

- 1 Who has the most flour and by how much?



.....

- 2 Danny needs to buy 20kg of potatoes for a restaurant. The potatoes come in 2.5kg bags.

How many bags will Danny need to buy?

- 3 Change each amount to grams (g).

a. 1.6kg

b. 3.55kg

c. 0.63kg

- 4 In 2009, the average weight of a man was 84kg and the average weight of a woman was 69kg.

What is the difference in average weights?

- 5 Change each amount to kilograms (kg).

a. 674g

b. 2,045g

c. 7,500g

- 6 Amir puts on 0.45kg weight after eating a big meal. Before the meal, Amir weighed 36.5kg.

How much does Amir weigh after the meal?

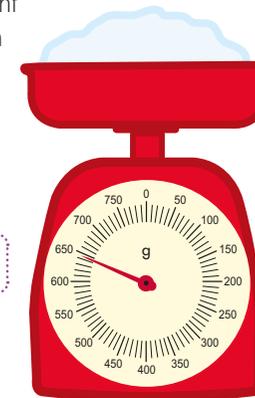
- 7 A builder needs 200kg of sand in order to make cement. Sand comes in bags of 25kg.

How many bags will the builder need?

- 8 A box of Flakeyweats weighs 860g when full. A quarter of the box has been used.

How much is left?

- 9 What weight is shown on this scale?



- 10 Show this weight on the scale.



Measuring liquids

Test your knowledge of using liquid volume measurements, such as litres and millilitres.

Time filler:

Are you quicker converting litres (l) to millilitres (ml) or millilitres to litres? Give these a try and use the timer to find out: $0.8\text{l} = \dots \text{ml}$; $2.35\text{l} = \dots \text{ml}$; $450\text{ml} = \dots \text{l}$; $8,050\text{ml} = \dots \text{l}$; $32\text{ml} = \dots \text{l}$

- 1 Change each amount to millilitres (ml).

a. 1.85 litres

b. 0.65 litres

c. 0.04 litres

- 2 A milk carton contains 3.408 litres of milk when full.

How much milk is there in the carton when it is half full?

- 6 A bottle of health drink contains 800g of liquid.

How much liquid will be held in six bottles?

- 7 A litre is about 1.76 pints. Change each amount to pints.

a. 3 litres

b. 5 litres

c. 10 litres

- 3 In the UK, we sometimes measure liquid in pints instead of litres. A litre is a bit less than two pints.

Change each amount to pints (rounded to the nearest whole pint).

a. 5 litres

b. 10 litres

c. 15 litres

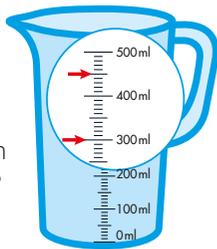
- 8 A cube has a volume of 125 cubic centimetres (cm^3).

What will be the volume of six cubes?

- 9 A can of drink holds 440 ml.

How much drink will there be in three cans? Give the answer in litres.

- 4 This is part of a scale from a measuring jug. What are the amounts shown by the arrows?



- 5 Change each amount to litres.

a. 450 ml

b. 2,100 ml

c. 12,000 ml

- 10 In the UK, we sometimes measure liquids in gallons. A gallon is about 4.5 litres.

Work out each amount in litres.

a. 4 gallons

b. 10 gallons

c. 0.5 gallons

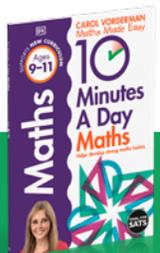


Suitable for 9–11 years | Check the last page of this pack for the correct answers

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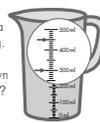
Answers:

Measuring liquids

<p>① Who has the most flour and by how much?</p> <p>Carl's flour 2.2kg 2.2kg 2.2kg 2.2kg</p> <p>Gail's flour 700g 700g 700g</p> <p>Carl – 6.7kg</p>	<p>② Danny needs to buy 20kg of potatoes for a restaurant. The potatoes come in 2.5kg bags.</p> <p>How many bags will Danny need to buy?</p> <p>8</p>	<p>③ Change each amount to grams (g).</p> <p>a. 1.6kg <input type="text" value="1,600g"/></p> <p>b. 3.55kg <input type="text" value="3,550g"/></p> <p>c. 0.63kg <input type="text" value="630g"/></p>	<p>④ Amir puts on 0.45kg weight after eating a big meal. Before the meal, Amir weighed 36.5kg.</p> <p>How much does Amir weigh after the meal?</p> <p>36.95kg</p>	<p>⑤ A builder needs 200kg of sand in order to make cement. Sand comes in bags of 25kg.</p> <p>How many bags will the builder need?</p> <p>8</p>
<p>④ In 2009, the average weight of a man was 84kg and the average weight of a woman was 69kg.</p> <p>What is the difference in average weights?</p> <p>15kg</p>	<p>⑤ Change each amount to kilograms (kg).</p> <p>a. 674g <input type="text" value="0.674kg"/></p> <p>b. 2,045g <input type="text" value="2.045kg"/></p> <p>c. 7,500g <input type="text" value="7.5kg"/></p>	<p>⑧ A box of Flakeywheats weighs 860g when full. A quarter of the box has been used.</p> <p>How much is left?</p> <p>645g</p>	<p>⑨ What weight is shown on this scale?</p>  <p>645g</p>	<p>⑩ Show this weight on the scale.</p>  <p>0.45kg</p>

This work has two main parts. The first part is knowing the relationship between grams and kilograms and being able to change between them. The second part is the ability to measure using weights and scales in digital and analogue forms.

Measuring weights

<p>① Change each amount to millilitres (ml).</p> <p>a. 1.85 litres <input type="text" value="1,850ml"/></p> <p>b. 0.65 litres <input type="text" value="650ml"/></p> <p>c. 0.04 litres <input type="text" value="40ml"/></p>	<p>② A milk carton contains 3.408 litres of milk when full.</p> <p>How much milk is there in the carton when it is half full?</p> <p>1.704 litres (1,704ml)</p>	<p>③ A bottle of health drink contains 800g of liquid.</p> <p>How much liquid will be held in six bottles?</p> <p>4,800g (4.8kg)</p>	<p>④ A litre is about 1.76 pints.</p> <p>Change each amount to pints.</p> <p>a. 3 litres <input type="text" value="5.28 pints"/></p> <p>b. 5 litres <input type="text" value="8.80 pints"/></p> <p>c. 10 litres <input type="text" value="17.6 pints"/></p>
<p>③ In the UK, we sometimes measure liquid in pints instead of litres. A litre is a bit less than two pints.</p> <p>Change each amount to pints (rounded to the nearest whole pint).</p> <p>a. 5 litres <input type="text" value="About 10 pints"/></p> <p>b. 10 litres <input type="text" value="About 20 pints"/></p> <p>c. 15 litres <input type="text" value="About 30 pints"/></p>	<p>⑧ A cube has a volume of 125 cubic centimetres (cm³).</p> <p>What will be the volume of six cubes?</p> <p>750cm³</p>	<p>⑨ A can of drink holds 440ml.</p> <p>How much drink will there be in three cans? Give the answer in litres.</p> <p>1.32l</p>	
<p>④ This is part of a scale from a measuring jug. What are the amounts shown by the arrows?</p>  <p>300ml and 450ml</p>	<p>⑤ Change each amount to litres.</p> <p>a. 450ml <input type="text" value="0.45l"/></p> <p>b. 2,100ml <input type="text" value="2.1l"/></p> <p>c. 12,000ml <input type="text" value="12l"/></p>	<p>⑩ In the UK, we sometimes measure liquids in gallons. A gallon is about 4.5 litres.</p> <p>Work out each amount in litres.</p> <p>a. 4 gallons <input type="text" value="18l"/></p> <p>b. 10 gallons <input type="text" value="45l"/></p> <p>c. 0.5 gallons <input type="text" value="2.25l"/></p>	

Volumes can be confusing to children but they need to know and be able to use the main units of volume and convert between them. Children need to be able to calculate volumes using simple measuring devices.

Sometimes the child can be confused by volume being given as a weight. For example, some liquids will be given as grams rather than the expected litres or millilitres.