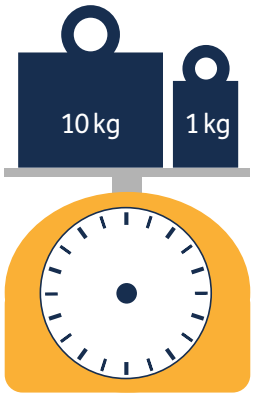
Mass and capacity

MyMaths

Question 1

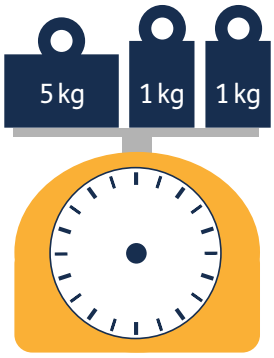
Here are some weights on some sets of scales. What should the scales read?

a



☐ kg

b

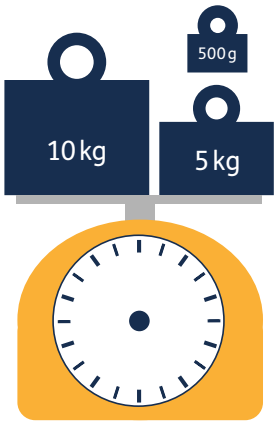


☐ kg

c

☐ kg and ☐ g

d



☐ kg and ☐ g

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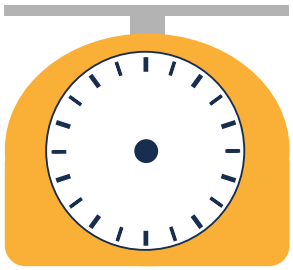
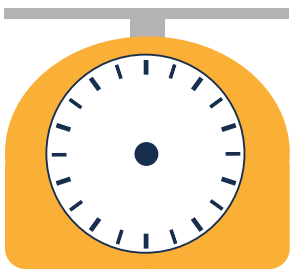
e Can you use weights to show two different ways to draw 17 kg 500 g on the scales below? You can use some of the same weights for both.

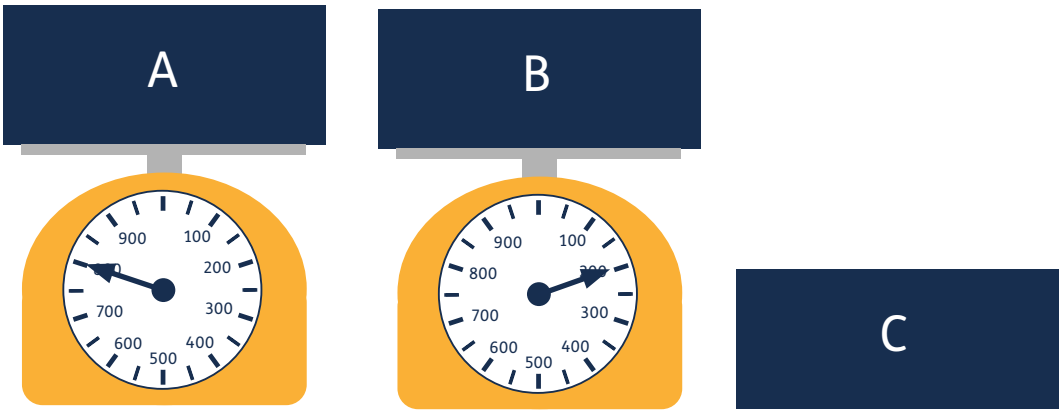




Mass and capacity

Question 2

Here are some boxes being weighed.



Can you complete these sentences?

a Box A is _____ than Box B. lighter/heavier

b Box B is _____ than Box A. lighter/heavier

Box C weighs more than Box B but less than Box A.

c Suggest three possible weights for Box C.

Mass and capacity

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Question 3

Can you compare these quantities? Use <, >, or =.

a 500 g of flour ☐ 5 kg of flour

b 1,000 g of potatoes ☐ 2 kg of rice

c 1,199 g bag of rice ☐ 1 kg bag of rice

d 12 kg weight ☐ 1,200 kg car

e 357 g tin of beans ☐ 357 g bucket of sand

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Question 4

Can you complete these additions and subtractions?

a 25 g + 75 g = ☐ g

b 1 kg + 35 kg = ☐ kg

c 36 g + 136 g = ☐ g

d 430 g + 72 g = ☐ g

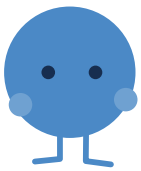
e 100 g – 72 g = ☐ g

f 25 kg – 17 kg = ☐ kg

g 350 g – 275 g = ☐ g

h 150 kg – 62 kg = ☐ kg

Question 5



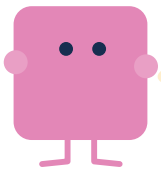
At the fruit stall, plums weigh 30 g and apples weigh 50 g.

I buy three plums and two apples. What mass of fruit have I bought?

Mass and capacity

At the post office, Paisley is sending three parcels. One weighs 4 kg, one weighs 450 g, and one weighs 1 kg and 200 g.

How much do her parcels weigh altogether?



June's school bag weighs 900 g with her pencil case and glasses case inside. Her pencil case weighs 450 g and her glasses case weighs 150 g. How much does her empty bag weigh?

Mass and capacity

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Question 6

Complete these additions and subtractions.

a 1 kg and 50 g + 10 kg and 500 g = ☐ kg and ☐ g

b 3 kg and 500 g + 2 kg and 350 g = ☐ kg and ☐ g

c 6 kg and 400 g – 4 kg and 100 g = ☐ kg and ☐ g

d 3 kg and 700 g – 1 kg and 650 g = ☐ kg and ☐ g

Question 7

Match these objects with their capacity.

A bathtub	6,000 litres
A teaspoon	330 ml
A can of fizzy drink	6 ml
A teacup	10 litres
A bucket	80 litres
A pool	125 ml

Mass and capacity

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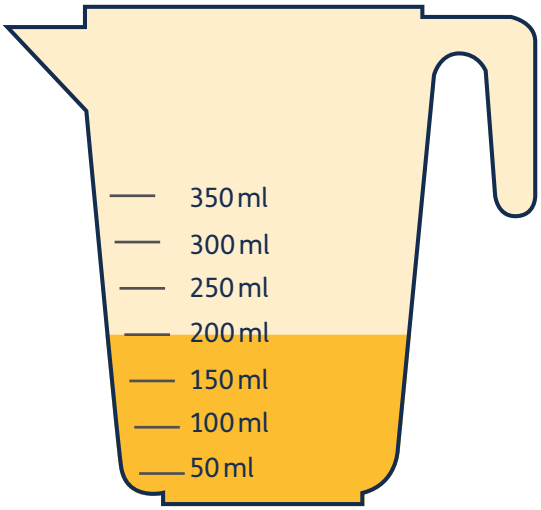
Question 8

a The capacity of a jug is 350 ml and the volume of liquid in the jug is 200 ml. How much more liquid can you put in the jug?



☐ ml

Amran has a cup with a capacity of 50 ml.
How many cups does he need to fill the jug to:

b 100 ml? ☐ cups

c 200 ml? ☐ cups

d 350 ml? ☐ cups

Mass and capacity

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Question 9

a I fill up three bottles of water for a picnic. Each bottle has a capacity of 2 litres. How much water am I bringing?

b I also bring two smaller bottles of orange squash that contain 300 ml each. What volume of squash am I bringing?

c What volume of liquid am I bringing to the picnic altogether?