Measurement

The Big Ideas

Developing benchmarks to support estimation skills is important as pupils become confident in their use of standard measures. The height of a door frame, for example, is approximately 2 metres, and a bag of sugar weighs approximately 1 kilogram.

Mastery Check

Please note that the following columns provide indicative examples of the sorts of tasks and questions that provide evidence for mastery and mastery with greater depth of the selected programme of study statements. Pupils may be able to carry out certain procedures and answer questions like the ones outlined but the teacher will need to check that pupils really understand the idea by asking questions such as 'Why?', 'What happens if …?', and checking that pupils can use the procedures or skills to solve a variety of problems.
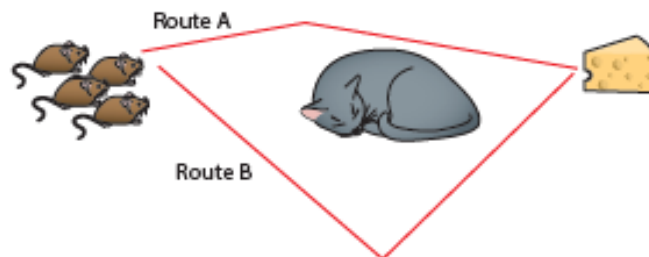
Mastery	Mastery with Greater Depth
I have 2 m of ribbon. How many 60 cm lengths can I cut from it?	A crocodile is 3 times as long as a pig. An elephant is 1·2 m longer than the crocodile. The elephant is 4·2 m long. How long is the pig?

How long is the crayon?

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Ahmed's ruler is broken. Explain how he can still use it to measure things in the classroom.

Find the total length of route A. Find the total length of route B. How much longer is route A than route B?

What is the difference in length between the pen and the pencil?

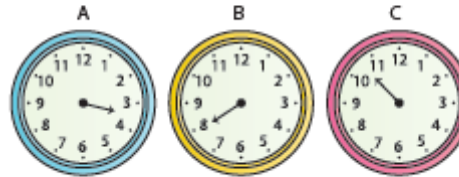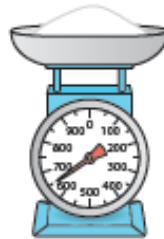| Mastery	Mastery with Greater Depth
Match the two clocks that show the same time.	These clocks have only one hand, but can you suggest a time that each could be showing? A B C Explain your reasoning.

Mastery	Mastery with Greater Depth
What is the mass of flour on the scales? I need $\frac{3}{4}$ kg of flour to make a cake. How much more flour do I need to add to the scales?	6 toy cars balance 2 dolls. 4 dolls balance 1 toy robot. If the robot weighs 3 kg, what does each toy car weigh?

Mastery	Mastery with Greater Depth
There is a tea urn and a teapot. The bottles next to them show their capacity.	These lemonade bottles each have a capacity of 2 litres.

There is a tea urn and a teapot. The bottles next to them show their capacity.

How much more water does the urn hold than the teapot?

These lemonade bottles each have a capacity of 2 litres.

One of them is $\frac{3}{4}$ full, and one of them contains $\frac{3}{4}$ of a litre of water. Which is which?

How much water is in the bottle which is $\frac{3}{4}$ full?

What fraction of the bottle is full in the bottle which contains $\frac{3}{4}$ of a litre?
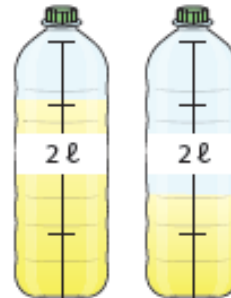

$£2·60 + \boxed{} = £5·00$

If I buy a sandwich for £2·20 and a drink for 90p, how much change do I get from £5?

Ellie buys 2 pencils. She pays with a £2 coin and gets 70p change.
How much did each pencil cost?

Sophie and Ravi have saved some money. Altogether they have saved £35. Sophie has saved £4 more than Ravi. How much have they each saved?

Sam and Tom share this money equally.
Divide the coins into two equal groups.

Could three friends share the money equally?

Explain your reasoning.

20p   50p

20p   10p

20p   5p   5p