White Rose Maths

1 Sort the metric units into the correct categories.

| ml | mm | g | kg | tonne | l | km |

Mass	Length	Capacity

2 Match the measure to its definition.

length		how much an object weighs
volume		the amount of space enclosed by a container
mass		how much of a solid, liquid or gas an object can hold
capacity		the measurement of something from end to end

3 Which is the most appropriate unit for each item?

a) the mass of an elephant

    g   kg   l   tonnes

b) the length of a classroom

    cl   cm   m   km

c) the capacity of a water bottle

    cm^3 m^3 ml   l

d) the length of a fly

    mm   cm   m   mg

4 Which is the best estimate for each item?

a) the capacity of a glass

    2 ml   20 ml   200 ml   2,000 ml

b) the length of a rounders bat

    50 mm   50 cm   50 m   50 km

c) the mass of a car

    1.5 g   1.5 kg   1.5 tonnes   15 kg

d) the length of a football pitch

    100 cm   100 m   100 km   100 mm

5 Estimate the length of your classroom. Give units with your answer.

Compare answers with a partner.

6

It's impossible to measure the school field using centimetres!

Do you agree with Mo?

Explain your thinking.

7 Estimate how much water it would take to fill a bath.

Explain your estimate to a partner.

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8 Dora and Ron are estimating the capacity of a jug.

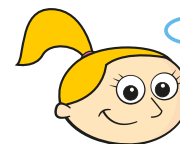The capacity of a jug is approximately 1 litre.
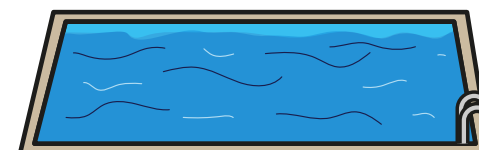
The capacity of a jug is approximately 600 ml.

They could both be correct.

Talk about why with a partner.

9 Eva is thinking about how to estimate the capacity of a swimming pool.

I know that a metal can holds roughly 200 ml of liquid. So to find out the capacity of a swimming pool, I could just imagine how many cans could fit into it!

Create your own way of estimating the capacity of a swimming pool.

10

I wonder how heavy our school is.

Write a plan to estimate the mass of your school.