

Y5 - Measures

This document provides ideas for activities and games that you can use at home to support your child's learning of **measurement**. Below are the key objectives that your child is expected to know:

- To convert between different units of measure (kilometre and metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre).
- To understand and use basic equivalences between metric units and common imperial units such as inches, pounds and pints.
- To use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.

Activities & Games!

★ Decide on the 'best' number to use in each of the following statements about measurement. You may like to talk to someone else about what you're thinking. You may need to do some estimating, some calculating and some research.

- 1) On average, cats weigh 1.5/4.5/8 kg. 2) Adult elephants need to drink about 100/200/400 litres of water a day.
 3) A giraffe's neck is about 120/170/220 cm long. 4) A lion's roar can be heard 8/12/16 kms away.

★★ Measure the heights (in cm) of all the people you live with.

Can you convert these measurements into mm and m? Use a table like this to record your results. What is the difference between the tallest and the shortest person in cm?

Name	Height (cm)	Height (mm)	Height (m)

★★★ You have four jugs of 9, 7, 4 and 2 litre capacity. The 9 litre jug is full of juice, the others are empty. How can you use the jugs to divide the juice into three equal quantities? Can you do it in different ways?

You have three jugs, one of which is full and holds 8 litres. The capacity of the other jugs is not known. However, it is known that when using them every whole number quantity from 1 litre to 8 litres can be accurately measured out.

What could be the capacities of the 2 other jugs? How would you measure all the whole number quantities from 1 to 8 litres?

★★ Adam makes 2.5 litres of lemonade for a charity event. He pours it into 650ml glasses to sell. He thinks he can sell 7 glasses. Is he correct? Prove it.

A 5p coin has a thickness of 1.6mm. Jake makes a tower of 5p coins worth 90p. What is the height of the tower in cm?

★ Use < > or = to complete these statements: 750g 0.8kg; 500ml half a litre; 17mm 2cm - 5mm

★★ Fill in the missing number: 6 inches = cm; 1 yard = feet; 1 ounce = grams

Mr Skrein sells apples for 40p a kilogram. Ms Higgins sells apples for 24p a pound. Who sells them cheaper? Explain how you know.

Going deeper...

Pies

Grandma had made pies for a bake sale. She had carefully put equal amounts of mixture in each pie tin and was now trying to find the weight of the pies.

She had a problem; she only had one 200 gram weight and one 125 gram weight.

She found that one pie balanced on the scale with both weights and a quarter of a pie.

How heavy was each pie?



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Whilst it can be very tempting to encourage your child to have a go at the more challenging activities, it is far better to work with them at a level they feel confident with. Significant and regular practise of even the most basic skills outlined in this document will lead to a much deeper understanding and greater proficiency, and ultimately a much more pleasant 'homework' experience for you and your child!