

Portfolio Task 8.1

Write a list of the units of measurement you have a sense of as I did above. Try to complete the list below – what do you think weighs about 1 kg, has a capacity of about a litre or measures about 1 cm?

1 mm	1 g	1 ml
1 cm	1 kg	10 ml
1 m	100 kg	500 ml
1 km		1 litre
10 km		100 litres

Which measurements did you find easy and which did you find hard? Talk to your friends about it and think about how your prior experiences have informed your knowledge of measurements.

Portfolio task 8.2

Decide which of these statements are true and which are false:

- If you double the dimensions of a rectangle you double its perimeter.
- If you double the dimensions of a rectangle you double its area.
- If you double the lengths of the sides of a rectangle, but leave the width the same, you double the area.
- If you double the dimensions of a cuboid you double its volume.

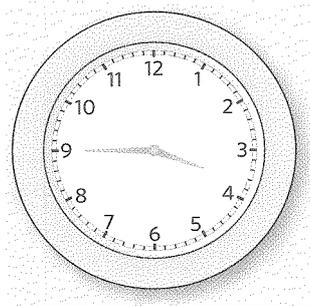
For the false statements write down an equivalent statement which is true. Try to describe why this is true.

Portfolio task 8.3

This clock is showing 3:45. Write down all the ways you could say this time.

These are some of the answers that my class gave – explain the errors the children are making:

- 45 minutes to 4
- 9 minutes to 4
- 9 minutes past 3
- 18 minutes past 9



Portfolio task 8.4

Devise a lesson plan which is appropriate for a group of learners you are working with. The focus should be an aspect of 'Measuring' that is appropriate to the age group you are working with.

Make sure you think carefully about the context and evaluate the lesson. Either incorporate the 'Scales' program or another interactive program which models a scale for weighing within your planning.

Add this lesson plan and evaluation to your subject knowledge portfolio.