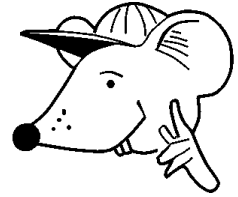




MATHEMATICS



N.S. Yr. 2 P.77

**Use measuring equipment
Interpret scales**

Equipment

Paper, pencil, ruler
Scissors scales
5 Boxes

MathSphere

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Concepts

Children should be able to choose a suitable measuring instrument for a given measuring task and devise their own measuring equipment. A lot of fun can be had by making their own rulers, measuring jugs etc and then using them. They should also have a better idea of what units to use for measuring. For example, it is better to find the mass of their own bodies in kilograms rather than in grams.

Children should get lots of practice at reading a scale to the nearest division. This is often quite hard for children to do accurately, especially if the scale is not going up in single units. Rather than use the worksheets in this module in isolation, they should be used in conjunction with practical work so that children may see how the diagrams relate to real equipment.

Children should be able to record an estimate and then record the actual reading in a suitable form (e.g. a table).

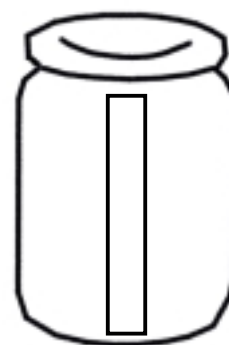
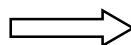
Lastly, they should be able to round units to the nearest metre or centimetre, using their own terms, such as:
"two and a bit metres"

Making a measuring jar.



You will need a very large jam jar, a small cup, paper and glue, plus lots of water!

1. Cut out a strip of paper, slightly smaller than the height of the jam jar.



2. Glue it on to the side of the jar.

3. Fill a cup with water and pour it into the jar.

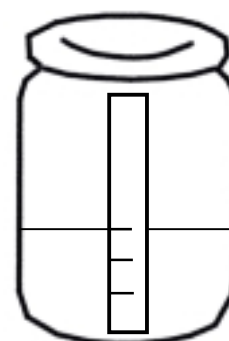


4. Mark on the paper the level of the water. Make sure you get right down to eye level to do this.

5. Fill another cup full and pour it into the jar. Mark the level again.

6. Repeat until the jar is full.

7. Use the jar to measure the capacity of some other small containers.



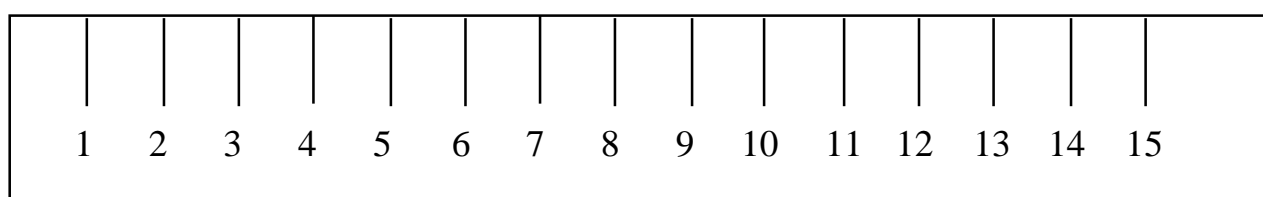
Good luck!

Make your own a ruler

You need a strip of paper and a ruler with centimetres marked on it.



1. Put the ruler on your strip of paper so that 0 centimetres is at the end of the strip.
2. Make a mark on the strip each centimetre along until you get to 15 centimetres.
3. Starting at 1 and counting on, number each mark up to 15.



Now use your ruler to measure all sorts of things in centimetres!

Use a ruler

Use a ruler to measure the distance between these points.



Measure to the nearest whole centimetre

1.



cm

2.



cm

3.



cm

4.



cm

5.



cm

6.



cm

Use a ruler



Use a ruler marked in centimetres to draw lines these lengths.
Write on each line how long it is.

1. 8 cm

2. 4 cm

3. 7 cm

4. 3 cm

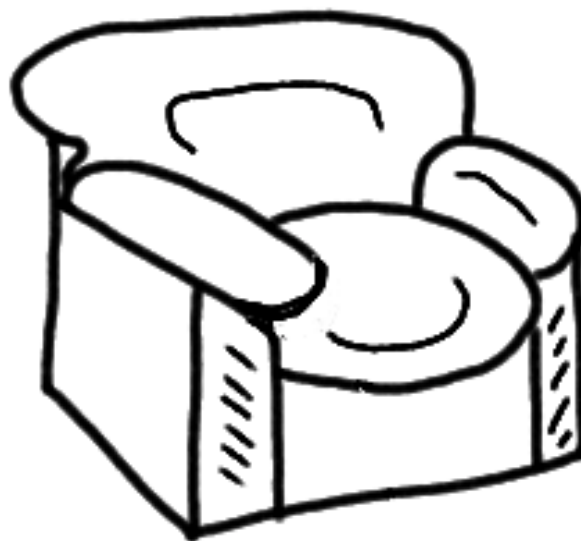
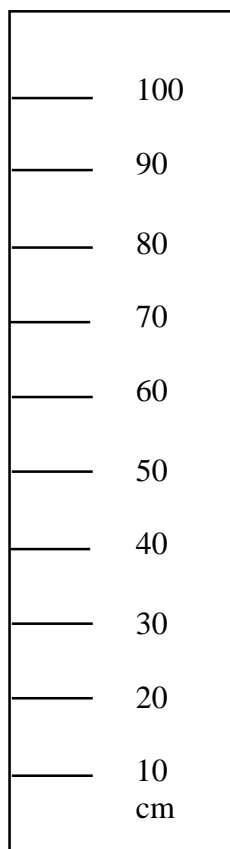
5. 5 cm

6. 2 cm

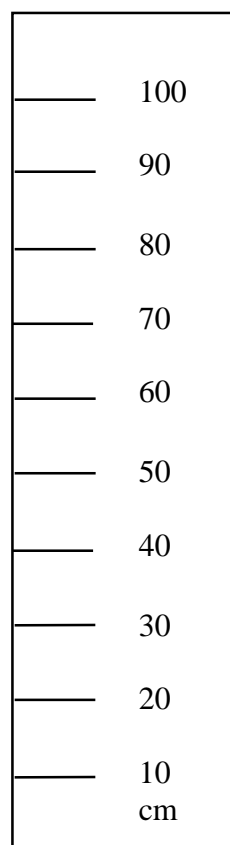
7. 9 cm

Reading scales

What is the height of the chair?

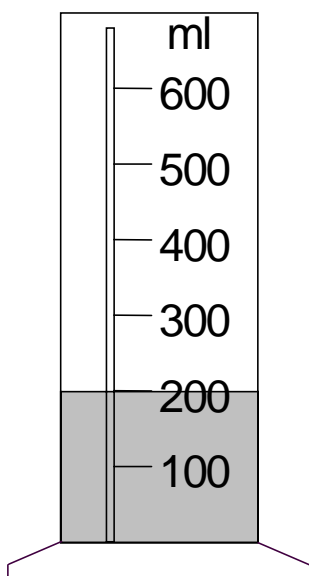


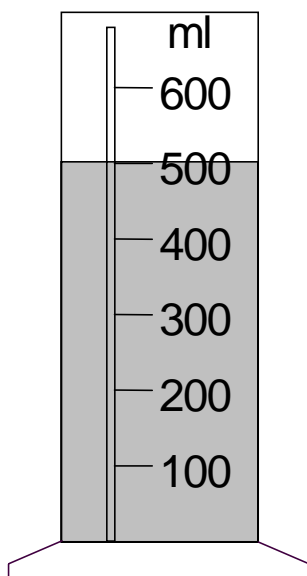
What is the height of the toy dinosaur?

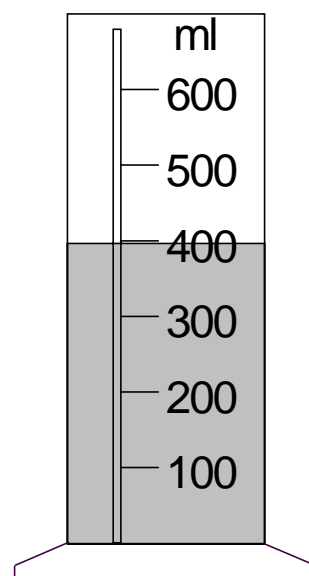


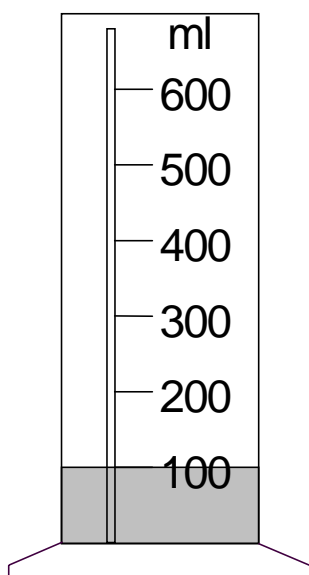
How much water?

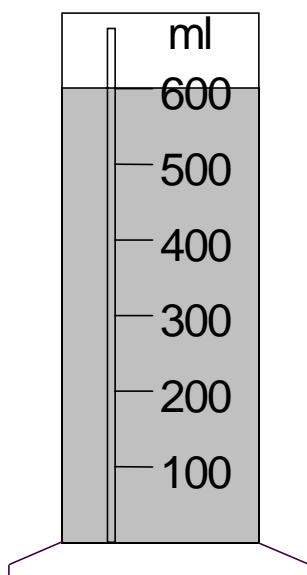
Write the amount underneath each container .

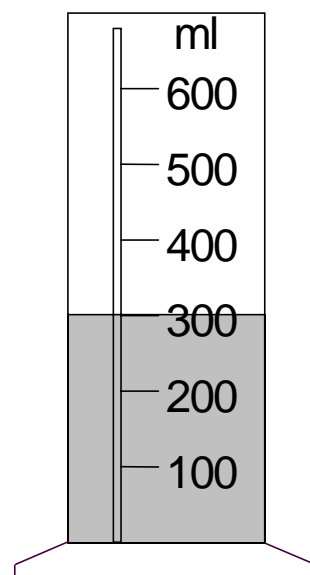






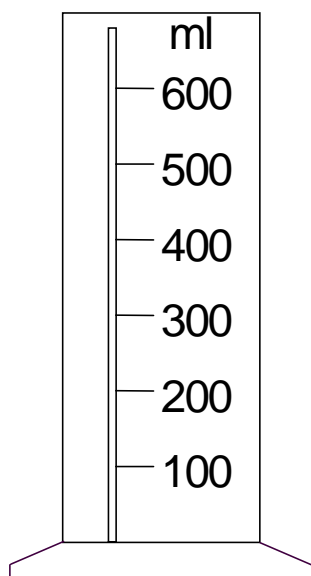




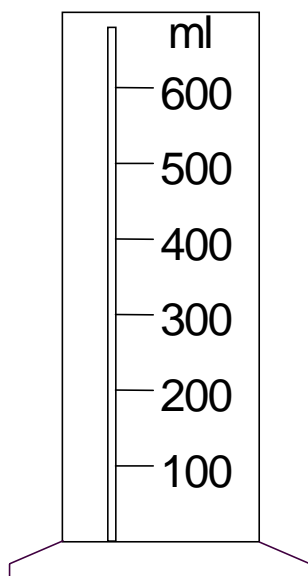


How much water?

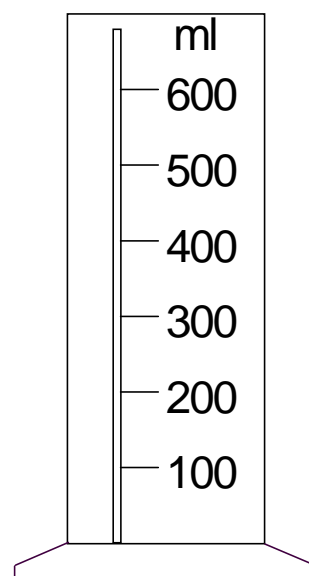
Fill the containers to the amount shown below.



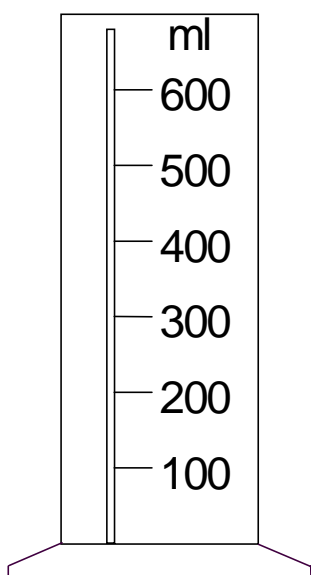
200 ml



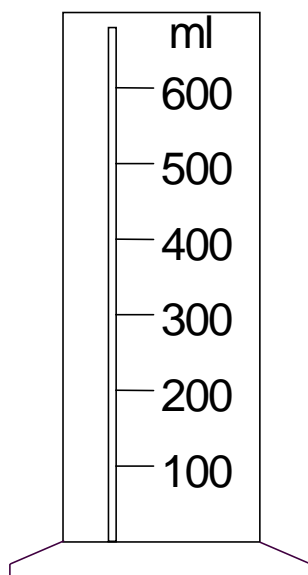
500ml



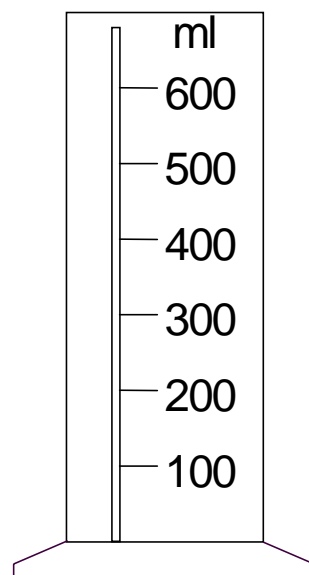
300ml



400 ml

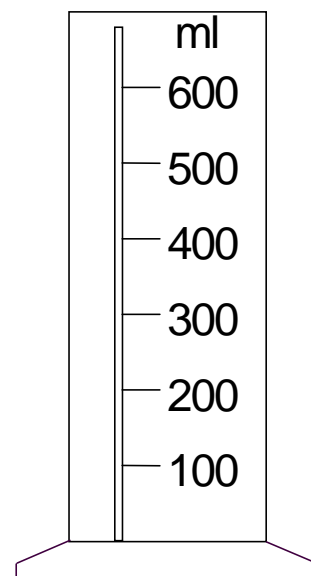
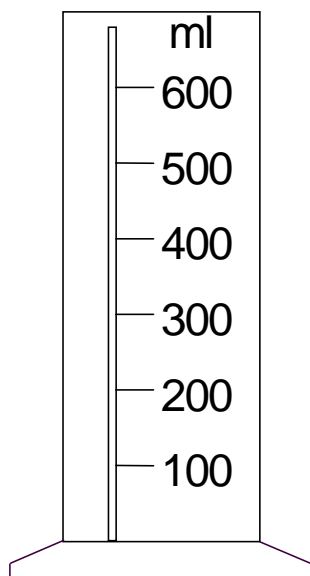
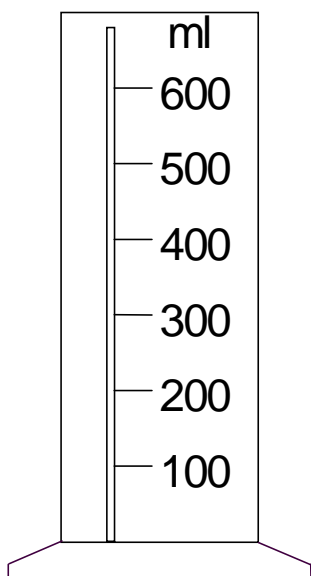
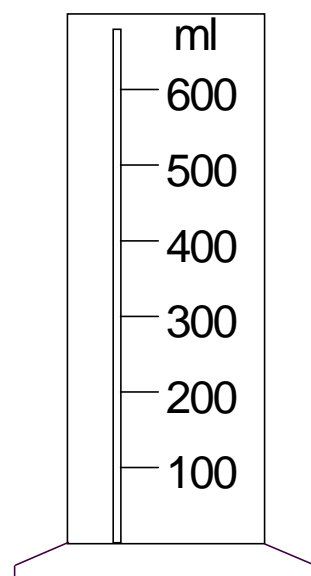
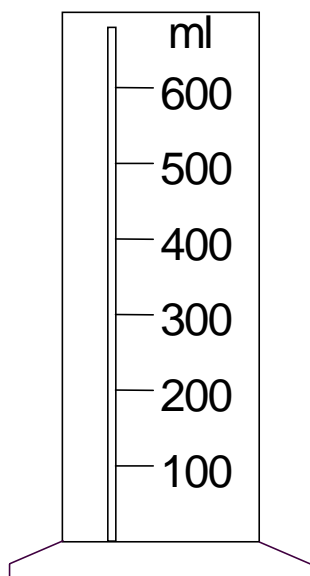
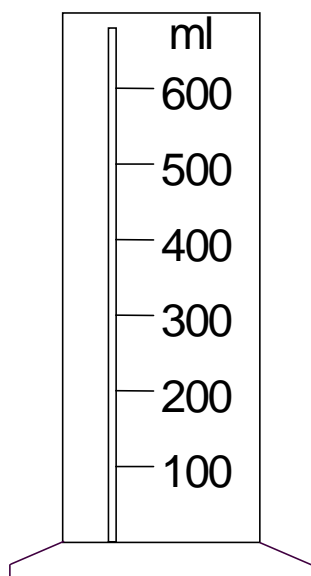


100 ml

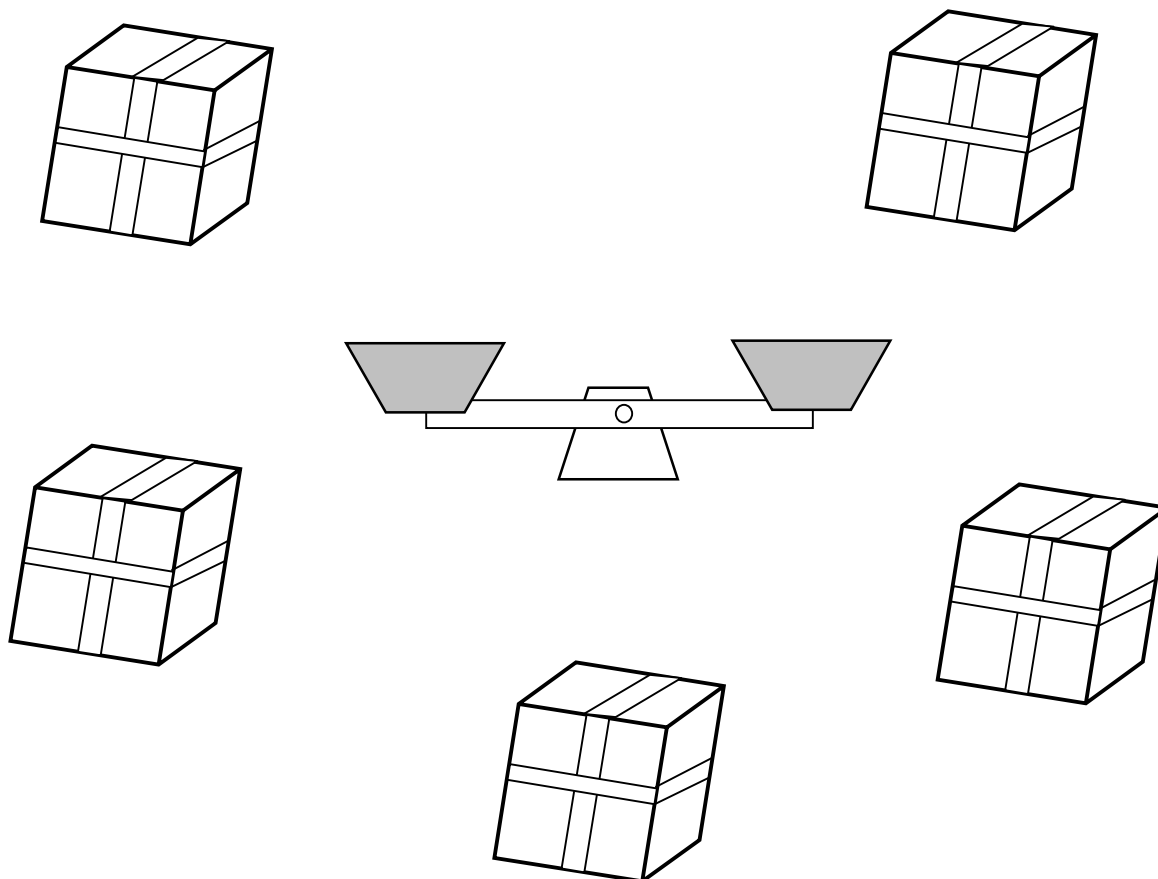


600 ml

How much water? - teacher's page



Finding the weight



Take 5 boxes.

Use a pair of scales to work out which is the heaviest.

Arrange them from the heaviest to the lightest.