Converting Units of Distance (mm/cm) and Quantity (ml/l)

Maths Talk and Research

Discuss these questions with your parents.

- What does 'milli' mean when it is at the start of a word?
- Would it be appropriate to measure height in millimetres?
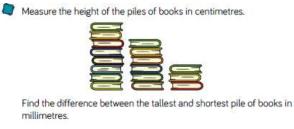- Go on a 'millimetre' hunt. Where in the house can you find things that could be measured in millimetres?

Complete the conversions.

1,000 mm = 1 m	1,000 ml = 1 l
5,000 mm = ☐ m	☐ ml = 3 l
50,000 mm = ☐ m	☐ ml = 30 l
500 mm = ☐ m	300 ml = ☐ l
5,500 mm = ☐ m	☐ ml = 0.3 l

Complete the missing information

$\frac{1}{1,000}$ m = ☐ mm $\frac{1}{100}$ m = ☐ mm $\frac{1}{10}$ m = ☐ mm

$3 l + \frac{1}{4} l =$ ☐ ml $2 l +$ ☐ ml = 2,500 ml

Compare the measurements using < , > or =

2 l ◯ 1,500 ml   60 l ◯ 6,000 ml
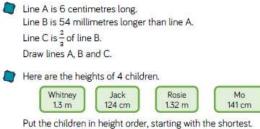
2.8 m ◯ 280 mm   3,700 m ◯ 3.7 mm

Maths Talk and Research

What is the same and what is different about these conversions?
•Converting from cm to m
•Converting from m to cm

What does 'centi' mean when used at the start of a word?
Which unit of measure would be best to measure: the height of a door frame, the length of a room, the width of a book?

Measure the height of the piles of books in centimetres.

Find the difference between the tallest and shortest pile of books in millimetres.

Line A is 6 centimetres long.
Line B is 54 millimetres longer than line A.
Line C is $\frac{2}{3}$ of line B.
Draw lines A, B and C.

Here are the heights of 4 children.

Whitney	Jack	Rosie	Mo
1.3 m	124 cm	1.32 m	141 cm

Put the children in height order, starting with the shortest.
Write their heights in millimetres.