## Converting units of capacity

Convert between millilitres and litres using decimals up to 3 places



1 Write each capacity using decimal notation.

а	i.	4
ш		10

ii  $\frac{4}{100} l$ ii  $\frac{9}{100}l$ 

700 ml

1600 ml

ii 30 ml

iii 3 ml

7 ml

 $\frac{1}{10}l = 0.1l$  $\frac{1}{100}l = 0.01 l$  $\frac{1}{1000}l = 0.001 l$ 

Example

2 Convert each capacity to litres using decimal notation.

## ii 70 ml

ii 160 ml

16 ml

Example 100 ml = 0.1 l10 ml = 0.01 l

1 ml = 0.001 l

3 Convert each capacity to millilitres.

0.8 l

ii 0.08 *l* 

0.008 l

**b** i 4.5 *l* 

ii 4.05 *l* 

4.005 l

Convert the millilitres of rain water in each bucket to litres then round your answer to 1 decimal place.



4545 ml = 4.545 *l* ≈ 4.5 *l* 





**b** 8070 ml



c 3704 ml



d 16 364 ml



e 18 095 ml



f 11 507 ml



2 Convert each capacity to millilitres.

a 4.9 l

**b** 4.49 *l* 

c 9.04 l

d 0.94 l

e 40.909 l f 94.004 l

3 For each statement, work out the answer to each part and write whether the statement is true or false.

**a**  $\frac{1}{2}$  of 3  $l > \frac{1}{4}$  of 5 l **b**  $\frac{1}{2}$  of 1.5  $l < \frac{1}{4}$  of 2 l

c  $\frac{1}{3}$  of 1  $l > \frac{2}{3}$  of 900 ml d  $\frac{1}{4}$  of 1  $l < \frac{1}{5}$  of 750 ml

e  $\frac{1}{3}$  of 1.8  $l > \frac{3}{4}$  of 1200 ml f  $\frac{4}{5}$  of 4 l < 10 000 ml



4 Copy and complete this pattern as far as you can go.

10 litres – 999 ml = 9.001 litres

9.001 litres – 999 ml =

litres

litres - 999 ml =

litres

5 You pour one or two of the amounts of water on the right into an empty 1 litre measuring jar. Write in litres the ten different amounts of water that your jar could now have in it.







0.1 1





50 ml

0.25 l

Dr Davies has four measuring jars labelled A, B, C and D and four test tubes labelled 1, 2, 3 and 4. Each measuring jar is filled with a different liquid and each test tube is filled with a different chemical. She transfers the liquid from one measuring jar and the chemical from one test tube into an empty jug and mixes them together. How many different combinations of liquid and chemical can she make?

