Chapter 17

Exercise 1

1. Which of these household items holds most liquid when full?

2. Put these items in order, starting with the one which holds the least.
   (a) Mug, Kettle, Spoon, Bucket
   (b) Barrel of beer, Cola can, 2 litre bottle.

3. Put these items in order, starting with the one which takes up the most space.
   (a) Loaf of bread, tin of beans, a garden pea, fridge.
   (b) Bicycle, truck, car, skateboard, jumbo jet.

4. Shown is a recipe to make 6 scones.
   (a) How much sugar is used?
   (b) Which piece of cutlery is used to measure out the butter?
   (c) What does the recipe use less of - salt or sugar?
   (d) If I have enough ingredients to make 18 scones, how much flour do I have?
   (e) I want to make 24 scones for a tea party. List the total ingredients that I need.

5. A punch bowl can hold 16 ladlefuls.
   A ladle can hold 10 spoonfulls.
   How many spoonfulls can the bowl hold?

6. It takes 2 tankers three trips each to fill a large vat of milk.
   Each tanker carries 50 barrels of milk.
   (a) How many barrels of milk does the vat hold?
   (b) If it takes 40 cows to fill a barrel, how many cows would it take to fill a vat?
Exercise 2

1. Copy and complete :- "One litre is equal to ........ millilitres".

2. What is the volume of coloured water, (in millilitres), in each bottle ?

3. (a) Which bottles contain less than half a litre?
(b) How many millilitres do I need to top-up the bottle in Q2(c) to one litre?
(c) If I pour all four bottles into a 2 litre jug would the water overflow?
(Explain your answer).

4. Write each of these volumes to the nearest 100 ml :-

Exercise 3

1. Change the following number of litres to millilitres :-
   (a) 1 litres  (b) 2 litres  (c) 6 litres  (d) 10 litres
   (e) 2.5 litres  (f) 4.7 litres  (g) 0.3 litres  (h) 0.05 litres

2. Change from millilitres to litres :-
   (a) 3000 ml  (b) 9000 ml  (c) 20000 ml  (d) 50000
State the volume of each of the following shapes, (in cm\(^3\)):

1.  
2.  
3.  
4.  
5.  
6.  
7.  
8.  
9.  
10.  

11. How many more cubes would you need to be able to complete the cuboid shape from shape 10?
Revision Exercise

1. Put these shapes in order, starting with the one that has the greatest volume.
   (a)  
   (b) Tin of soup, bottle of wine, medicine spoon, basin.

2. A recipe needs 50 grams of butter to make 4 fairy cakes.
   How many grams of butter is need to make 12 fairy cakes?

3. Ben has to take 2 tablets three times a day for one week to cure his cough.
   How many tablets will Ben take in the week?

4. A large basin can hold 8 jugfulls.
   A jugfull can hold 9 cupfuls.
   A cup can hold 100 millilitres.
   (a) How many millilitres does the jug hold?
   (b) How many litres does the basin hold?

5. What is the volume of liquid in each bottle?
   (a)  
   (b)  

   How much more liquid would you need to make it up to one litre.

7. Write down the volume of each shape below (in cm$^3$).
   (a)  
   (b)  

8. (a) Change to millilitres: - (i) 5 litres (ii) 10 litres (iii) 5·1 litres
   (b) Change to litres: - (i) 3000 ml (ii) 50 000 ml (iii) 400 ml