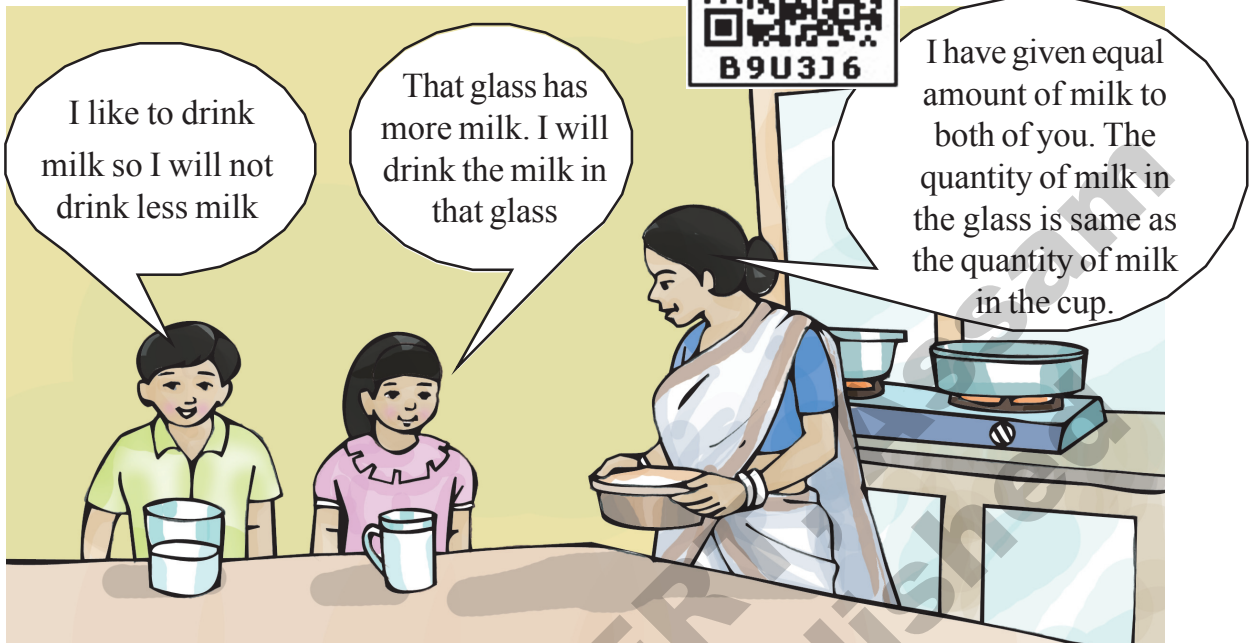
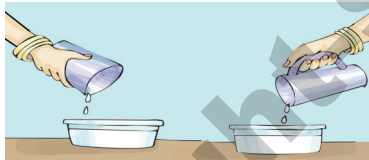




Who has how much milk



Polly did not agree with her mother. So Polly's mother took two bowls of equal size and poured their milk into the bowls.



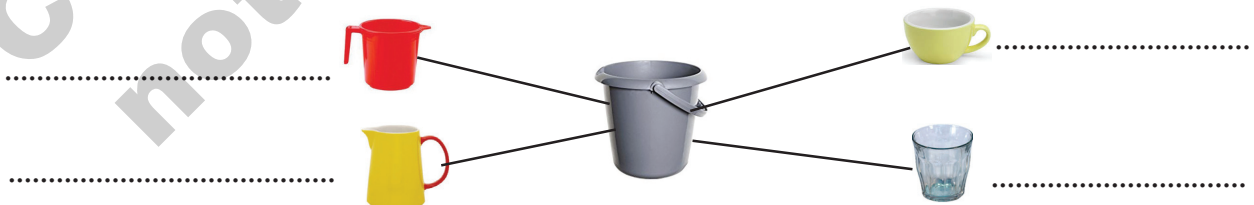
Oh! Mother gave us equal amount of milk



Paul and Polly understood that the amount of milk in the glass was equal to the amount of milk in the cup. After drinking the milk they took a glass and cup to measure how many cups of water will be required to fill the jug in the kitchen.

Do yourself

How many cups, glasses, mugs of water will be required to fill up a bucket



Let us learn : The units for measuring liquid are litre, millilitre. Millilitre is used measuring less amount of liquid. Litre is used for measuring more amount of liquid. Litre is also written as 'l' and millilitre is written as 'ml'.

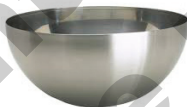
Look at the items which contain less amount of liquid (millilitre)



Look at the items which contain large amount of liquid (litre)



Write whether the amount of liquid in the following container is measured in litre or millilitre

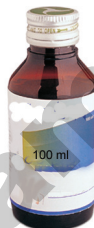


Litre



Write the quantity written in the packets and bottles.

Instruction to the teacher : The teacher will divide the class into groups and ask them to read aloud and write the quantity written on some used items such as packets, bottles etc.



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Guess and verify

Instruction to the teacher : The teacher will collect some objects like cap of a bottle, a cup, a glass, a bowl etc and ask the students to guess how many millilitres of liquid will fill up the objects. After that the students will measure with a 10millilitre syringe or a cap of a medicine bottle and verify whether their guess was correct.



Object	Assumed Measure	Verified Measure
		
		
		
		

Now write the answers to the following questions

- (a) How many caps of water fills up the cup ? spoons
- (b) How many cups of water fills up the glass ? cups
- (c) How many bowls of water fills up the glass ? bowls
- (d) How many caps of water fills up the bowl ? caps

Let us see how much milk is given by Paniram

Paniram gives 1 litre of milk daily to Reema's family. He pours the milk 4 times a 250 millilitre measuring can.

Reema added 250 millilitre 4 times

$$250 \text{ ml} + 250 \text{ ml} + 250 \text{ ml} + 250 \text{ ml} = 1000 \text{ ml} \\ = 1 \text{ litre}$$

Reema already knows that $1000 \text{ ml} = 1 \text{ litre}$



Let us convert millilitre to litre

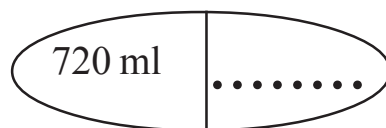
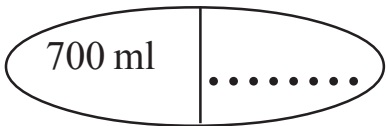
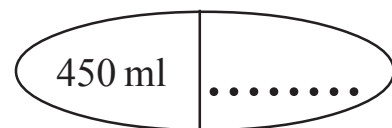
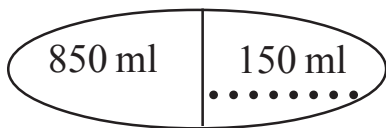
$$2000 \text{ ml} = 1000 \text{ ml} + 1000 \text{ ml} \\ = 1 \text{ litre} + 1 \text{ litre} \\ = 2 \text{ litre}$$

Do yourself

- (a) $2000 \text{ ml} = \dots\dots\dots \text{ litre}$
- (b) $4500 \text{ ml} = \dots\dots\dots \text{ litre}$



Add millilitre to make 1 litre



Let us make a measuring bottle

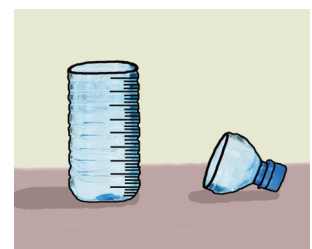
Materials required

- (a) Take an empty 500 millilitre bottle
- (b) A knife
- (c) One syringe (10ml) or a small medicine bottle with markings on it.
- (d) A pen or a colour pencil



How to make

- Cut the neck of the bottle
- Take 10ml of water with the syringe or medicine bottle and pour the water into the bottle.
- Mark the 10ml level of water
- Repeat this 25times and mark the 10ml of water every time.
($10\text{ml} \times 25 = 250 \text{ millilitre}$)
- Cut the bottle after the 250millilitre mark
- You will get a 250 millilitre measuring bottle.



Solve the problems (Group activity)

- (a) How many 100 millilitre bottles of water is required to fill up a 1 litre bottle ?
- (b) How many 250 millilitre bottles of water is required to fill up a 2 litre bottle ?
- (c) How many 500 millilitre bottles of water is required to fill up a 5 litre bottle ?
- (d) How many 1 litre bottles of water is required to fill up a 4 litre bottle ?

Let us learn

We use unit like litre, millilitre etc to measure liquids like water, milk, mustard oil, kerosene, petrol etc. Let us look at some cans used for measuring liquids.



Arrange the amount of water



Add

$$\begin{array}{r} \text{(a)} \quad 5 \text{ litre } 40 \text{ ml} \\ + \quad 3 \text{ litre } 20 \text{ ml} \\ \hline \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 6 \text{ litre } 70 \text{ ml} \\ + \quad 4 \text{ litre } 25 \text{ ml} \\ \hline \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 2 \text{ litre } 40 \text{ ml} \\ + \quad 5 \text{ litre } 50 \text{ ml} \\ \hline \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 2 \text{ litre } 30 \text{ ml} \\ + \quad 7 \text{ litre } 60 \text{ ml} \\ \hline \end{array}$$



Subtract

$$\begin{array}{r} \text{(a)} \quad 4 \text{ litre } 80 \text{ ml} \\ - 2 \text{ litre } 40 \text{ ml} \\ \hline \hline \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 7 \text{ litre } 75 \text{ ml} \\ - 8 \text{ litre } 25 \text{ ml} \\ \hline \hline \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 16 \text{ litre } 50 \text{ ml} \\ - 5 \text{ litre } 30 \text{ ml} \\ \hline \hline \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 12 \text{ litre } 85 \text{ ml} \\ - 7 \text{ litre } 45 \text{ ml} \\ \hline \hline \end{array}$$

Solve the problems

- (a) Rohan purchased a 500 ml bottle of water and 200 ml bottle of orange juice. How much liquid is there in both the bottles ?

$$\begin{array}{r} \text{water bottle} = 500 \text{ ml of water} \\ \text{orange juice bottle} = 200 \text{ ml of orange juice} \\ \hline \text{Total} = 700 \text{ ml of liquid} \end{array}$$

- (b) Runjun's mother bought 15 litres of milk on her birthday. She used 10 litres of milk to make kheer and 3 litres for making tea. How much milk is left ?
- (c) If Ratul carries 1 litre of water in a bottle everyday to school. How many litres will he carry in 6 days ?
- (d) Najma's family spends 25 litres of water for cooking and 17 litres for drinking in a day. How many litres of water are spent for 15 days ?
- (e) 120 litres of water is required in a day to water a garden. How many litres of water will be required in one week ?
- (f) Dipu's mother asked him to fill a kettle measuring 2 litre 500 ml with water. He filled the kettle with a bottle by pouring water 5 times . How much water did he pour each time ?
- (g) Langsi's cow gives 70 litres of milk in a week. How many litres of milk does the cow give in one day ?
- (h) During rain, Bristi collected 7 buckets of rain water in a large bucket with a small bucket of 5 litres. But 4 litre 500 millilitre water overflowed from the large bucket. How much rain water got stored in the large bucket?

