

10 How much do these bottles hold?

We had learnt in class 3; that a bottle holds 1 liter of water.

How many glasses will fill a 1 liter water bottle? _____

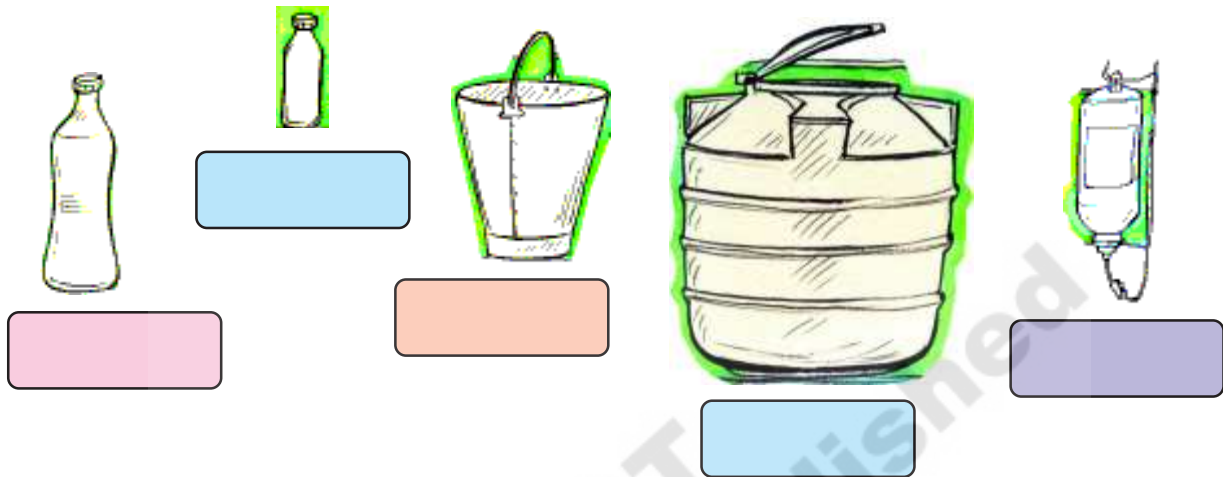
Write in the table below which of the containers given below holds more than a liter and which holds less than a liter? Also extend this list.



More than a liter	Less than a liter

1. Estimate how many litres these containers can hold?

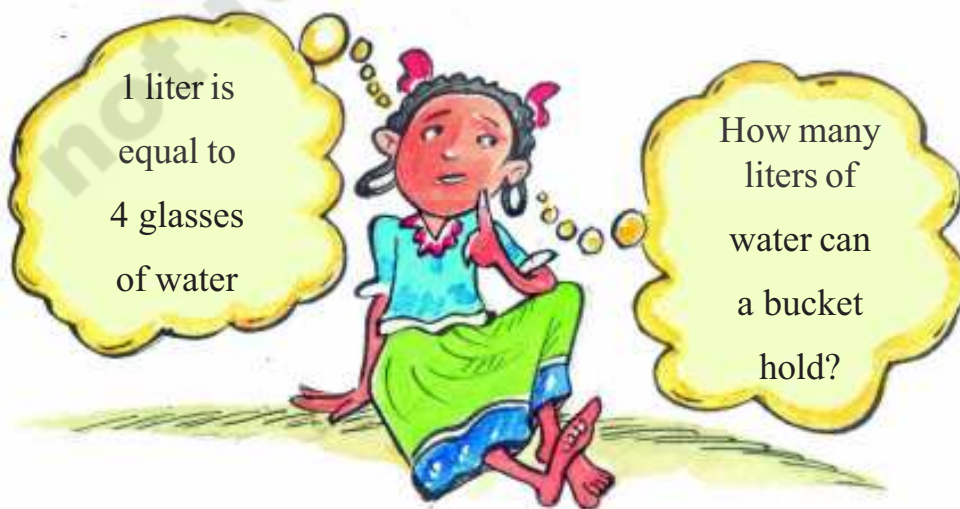
- 1000 liters 1 liter 20 liters Half a liter Less than half a liter



How much water does Dolly use in a day?

Dolly uses a bucket of water for having bath. She drinks about 8 glasses of water and uses 3 buckets of water for other purposes in a day. How many liters of water does Dolly need for.

- (a) Having bath _____
(b) Drinking _____
(c) For other purposes _____



- (d) How many liters of water does dolly need in a day? _____

Try This

1. Estimate how many liters of water you use daily?

Less than a liter

How much liquid can a spoon hold?

A spoon can hold about 3 milliliters of liquid.

You think of things that you drink in such small quantities and write below?

We also write
milliliters as ml



At the doctors

Chitra cut her hand while sliding down the swing. Her parents immediately took her to the doctor for a tetanus injection. Chitra was not scared of injections. She asked the doctor to show her the medicine filled injection.

How much medicine is there in the injection?



The doctor also prescribed Chitra a tonic and asked her to take 5 ml each time. He showed her the 5 ml marking on the cap.

Do This

1. Which of the following things do you take in milliliters and which in liters?

Item	Millilitres/ Liters
Milk	
Coconut oil	
Cool drink	
Shampoo	
Medicine Tonic	

A thousand milliliters make a liter.

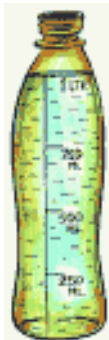
Vasudha took an empty 1 liter water bottle and an empty 250 ml coconut oil bottle.



She filled the coconut oil bottle completely with water and poured it into the water bottle.



She then filled the coconut oil bottle with water again and poured it into the water bottle.



She repeated this two more times and her 1 liter bottle was completely filled up.



Thus, $250 \text{ ml} + 250 \text{ ml} + 250 \text{ ml} + 250 \text{ ml} = 1000 \text{ ml}$

Do This

How many of these will be needed to make a liter?









Activity

Collect three bottles of different sizes. Estimate, how many bottles of each type would fill a 1 liter bottle. Then find out how correct your estimate is by pouring water from each of these bottles into a one liter bottle.

	Your estimate	Your measurement
Bottle 1		
Bottle 2		
Bottle 3		

- (a) If two small bottles fill up a one liter bottle, then how much would each small bottle hold?



- (b) If four small bottles fill up a one liter bottle, then how much would each small bottle hold?

Try This

1. Fill in the blanks given below and make it equal to 1 liter.

(a) $500 \text{ ml} + \underline{\hspace{2cm}} = 1 \text{ liter.}$

(b) $\underline{\hspace{2cm}} + 750 \text{ ml} = 1 \text{ liter.}$

(c) $900 \text{ ml} + \underline{\hspace{2cm}} = 1 \text{ liter.}$

(d) $\underline{\hspace{2cm}} \times 500 \text{ ml} = 1 \text{ liter.}$

(e) $\underline{\hspace{2cm}} \times 250 \text{ ml} = 1 \text{ liter.}$

Save water!

Is there a tap in your home, school or surroundings from which water is leaking?

Put a one liter bottle under it and find out how much water fills in one hour.

(a) If the tap was to continue leaking for one day, how much water would be wasted?

(b) If the tap was to continue leaking for one week, how much water would be wasted?



Exercise

1. Fill the blanks given below.

(a) $3 \text{ liters} = \underline{\hspace{2cm}} \text{ ml}$

(b) $7 \text{ liters} = \underline{\hspace{2cm}} \text{ ml}$

(c) $8500 \text{ ml} = \underline{\hspace{2cm}} \text{ l } \underline{\hspace{2cm}} \text{ ml}$

(d) $5250 \text{ ml} = \underline{\hspace{2cm}} \text{ l } \underline{\hspace{2cm}} \text{ ml}$

(e) $9750 \text{ ml} = \underline{\hspace{2cm}} \text{ l } \underline{\hspace{2cm}} \text{ ml}$

2. What is the total amount of water in the bottles?



3. Kalpana's cow gives 15 liters of milk every day. If Kalpana uses 8 liter 500 ml of milk at home, how much can she sell in the market?
4. A water tank holds 500 liters of water. The school uses 375 liters of water in a day. How much water is left for the next day? If the school needs a full tank the next day, how much more water needs to be pumped into the tank?
5. Anand drinks 250 ml and Anitha drinks 500 ml of milk everyday. If they drink the same amount of milk every day, how much of milk will they drink in 4 days? How much milk will they drink in 7 days?
6. How much water do you take everyday? How much milk? How much tea? How much juice? If 4 glasses of liquid is equal to 1 liter, then how many liters of liquid do you have in a day? In a month?
7. Swathi has to pour out 2 liters of juice in glasses that can hold 200 ml. How many such glasses are required?
8. Karuna's two year old daughter was ill. The doctor asked Karuna to give her daughter 3 ml of a tonic medicine, 3 times a day. He asked Karuna to continue the medicine for 7 days.
- (a) How much medicine will Karuna's daughter take in 7 days?
- (b) If the bottle of medicine contained 100 ml of medicine, then how much medicine will be left in the bottle after 7 days?
9. A tonic bottle contains 60 ml of medicine. How much medicine will there be in 15 such bottles?

10. Mahesh runs a tea shop. He uses about 20 ml of milk in each tea cup. If he sells 50 cups in a day, how much milk does he use in the day?
11. A shopkeeper keeps different sized coconut oil bottles in her shop. In a day she sells 60 bottles of oil. The details are given below-

Sale per day	Capacity per bottle
20 bottles	200 ml
30 bottles	500 ml
10 bottles	100 ml



How much oil does the shopkeeper sell in the day?

12. Rajendra and Rajni and their two children live in Adilabad. The table given below gives details about the water used by the family in a day.

Usage	Number of liters
Cooking and drinking water	15 liters
Washing utensils	20 liters
Washing clothes	40 liters
Taking bath	60 liters

- How much water does the family use in a day?
13. Estimate how much water your family uses in a day and write in the table below-

Usage	Number of liters
Cooking and drinking water	
Washing utensils	
Washing clothes	
Taking bath	