

Mathematics

Volume and Capacity

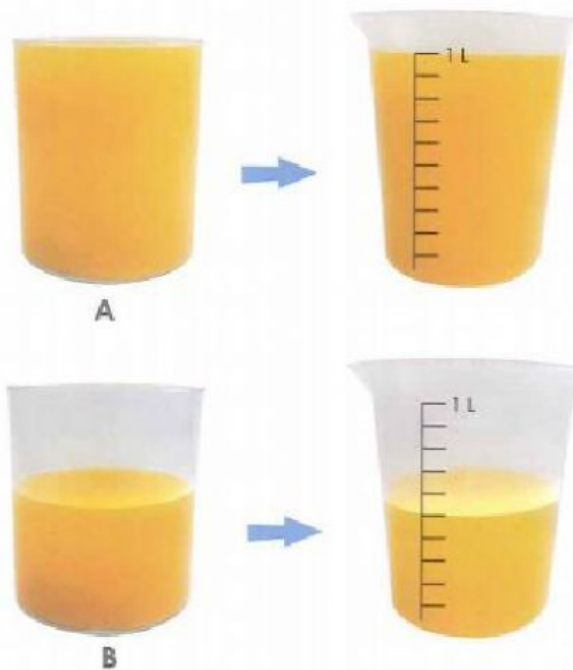
Monday

Volume and capacity

Let's Learn

Math
Lab

Picture
It



Jar A and Jar B are identical containers.
They can each hold 1 liter of liquid when full.
The **capacity** of each jar is 1 liter.

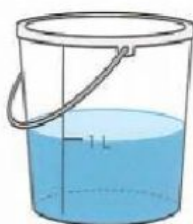
The capacity of a container is the amount it can hold when full.

There is less than 1 liter of liquid in Jar B.
The volume of liquid in Jar B is less than 1 liter.

The volume of liquid is the amount of liquid in the container.

Let's Do

1. Fill in the blanks with **capacity** or **volume**.



- a) The _____ of the pail is 2 liters.
- b) The _____ of water in the pail is 1 liter.

Comparing capacity

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Picture
It



There is water
left in the jug.



The jug can hold more water than the bottle.



The jug is not
filled completely.



The bottle can hold less water than the jug.
The jug has a greater capacity than the bottle.



The jug and the basin can hold the same amount of water.
The jug and the basin have the same capacity.

Comparing capacity in liters

Let's Learn

All the water in the containers is poured into 1-liter beakers.

Math
Lab

Picture
It



jerrycan



bottle



mug



The jerrycan can hold more than 1 liter of water.

The bottle can hold 1 liter of water.

The mug can hold less than 1 liter of water.

The capacity of the jerrycan is 4 liters.

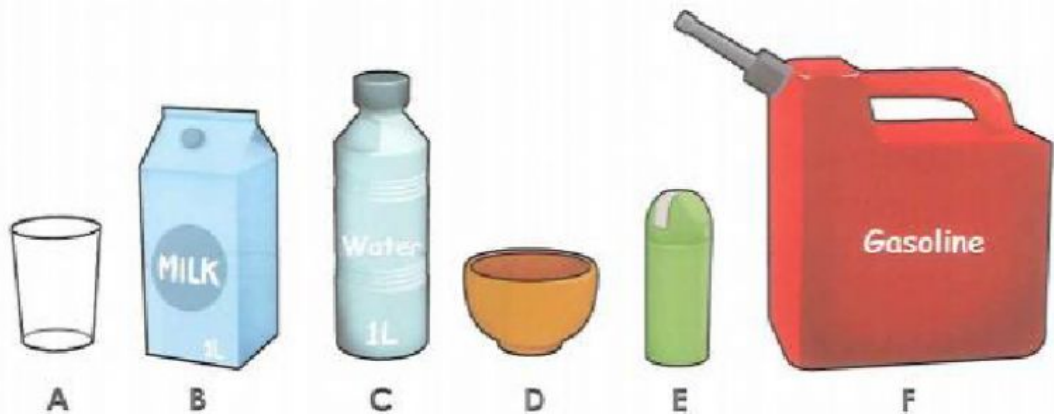
The capacity of the bottle is 1 liter.

$$4 \text{ L} - 1 \text{ L} = \text{■} \text{ L}$$

The bottle can hold ■ liters less than the jerrycan.

Let's Do

1. Look at the containers on page 64 and fill in the blanks.
 - a) The _____ has the greatest capacity.
 - b) The _____ has the smallest capacity.
2. a) Which of the following containers have a capacity of 1 liter, less than 1 liter or more than 1 liter?



Capacity	Containers
1 liter	
less than 1 liter	
more than 1 liter	

- b) Get a container which you think can hold less than 1 liter of water. Fill it completely with water and then measure its capacity. Is it less than 1 liter? _____
 - c) Get a container which you think can hold more than 1 liter of water. Fill it completely with water and then measure its capacity. Is it more than 1 liter? _____
3. Pail A can hold 12 liters of water.
Pail B can hold 8 liters of water.
 - a) Pail ____ has a greater capacity than Pail ____.
 - b) It can hold ____ liters more water.