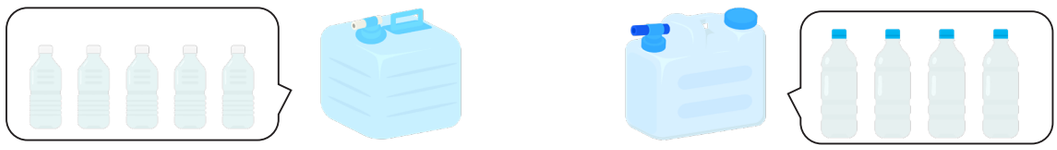
8 - 1 Capacity of Water

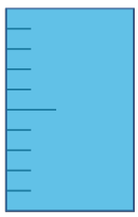
Litre

Instruction

There are some containers. Which can hold more water?



The plastic bottles are different size.
Can we compare?

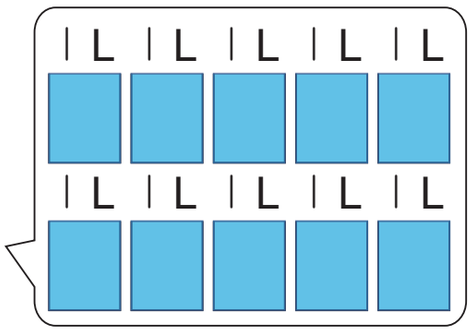


The amount of liquid that can fit in a container is called the capacity.
To compare the capacity of a container, use a standard container, like 1 L.

1 Litre(1 L) container

Example

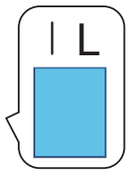
Measure the capacity of water that the container holds.



It has 10 L

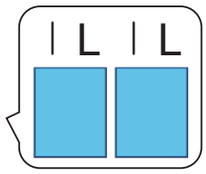
Measure the capacity of water that the following items hold.

1 



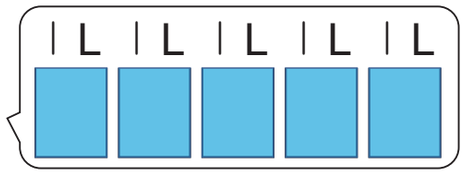
□ L

2 



□ L

3 

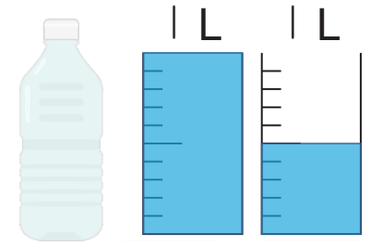


□ L

8 - 2 Capacity of Water

Decilitre

Example 1 Measure the capacity of water in a plastic bottle using a 1 L container.

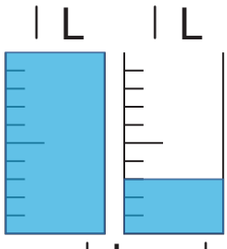


It has 1 L 5 dL.

When you divide 1 L into 10 equal parts, each part is 1 **Decilitre**(1 **dL**).
1 L = 10 dL

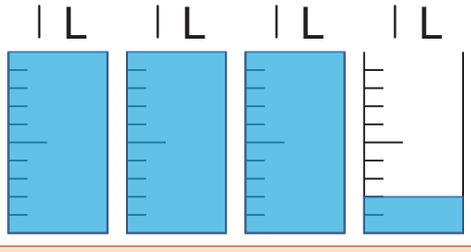
1 Measure the capacity of water that the following items hold using a 1 L container.

1



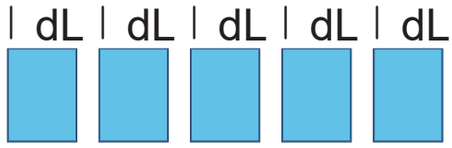
□ L □ dL

2



□ L □ dL

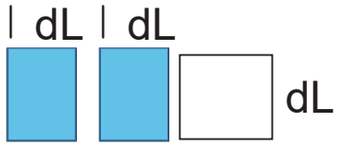
Example 2 Measure the capacity of water that the water container holds using a 1 dL container.



It has 5 dL.

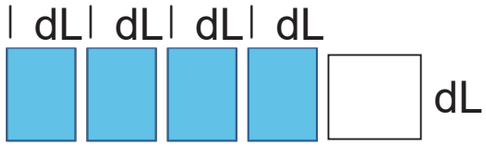
2 Measure the capacity of water that the container holds using a 1 dL container.

1



□ dL

2

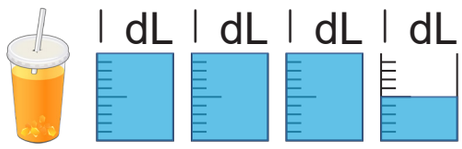


□ dL

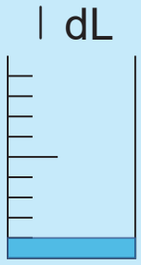
8 - 3 Capacity of Water

Millilitre

Example Measure the capacity of water in a cup using 1 dL container.

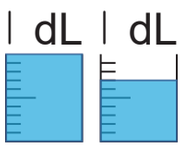


It has 350 mL.



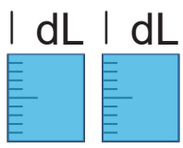
When you divide 1 dL into 10 equal part, each part is 10 **Millilitres(mL)**.
1 dL = 100 mL
1 L = 1000 mL

1 Measure the capacity of water that the following items hold using a 1 dL container.

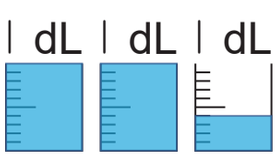
1 


mL

2 

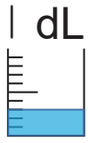


mL

3 


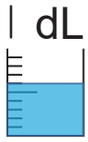
mL

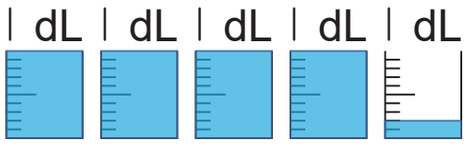
4

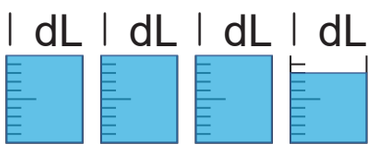


mL

2 Match the same capacities with a line.

1 

2 

3 

380 mL

420 mL

60 mL

8 - 4 Capacity of Water

Units of Capacity (1)

Example 1 Place the appropriate units in the blanks.

1. The amount of water in a plastic bottle
2. The amount of water in a plastic tank
3. The amount of water in a milk bottle

500 [mL]

18 [L]

2 [dL]

Example 2 Which container holds about 1000 mL?

1. Bottle
2. Kettle

[Bottle] holds about 1000 mL.

1 Place the appropriate units in the blanks.

1. The amount of water in a plastic bottle
2. The amount of water in a cooking pot
3. The amount of water in a milk bottle

1000 [ ]

5 [ ]

2 [ ]

2 Which container holds about 1500 mL?

1. Milk bottle
2. Cup
3. Plastic bottle

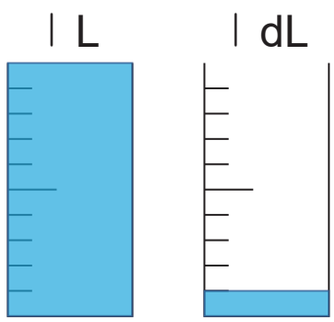
[ ] holds about 1500 mL.

8 - 5 Capacity of Water

Units of Capacity (2)

Example Fill in the blanks with numbers.

1. 1 L = [10] dL
2. 1000 mL = [1] L
3. 100 mL = [1] dL



Fill in the blanks.

1. 2 L = [ ] dL
2. 10 L = [ ] dL
3. 18 L = [ ] dL
4. 3 L = [ ] mL
5. 40 dL = [ ] L
6. 5 dL = [ ] mL
7. 120 dL = [ ] L
8. 18 dL = [ ] mL
9. 5000 mL = [ ] L
10. 7000 mL = [ ] L
11. 900 mL = [ ] dL
12. 1000 mL = [ ] dL
13. 1300 mL = [ ] dL
14. 2500 mL = [ ] dL

Depending on where you live, another unit is familiar such as Centilitre, cL.
1 cL = 10 mL
100 cL = 1 L
So, 1 L = 10 dL = 100 cL = 1000 mL
Let's find out the kinds of units of capacities around you.

8 - 6 Capacity of Water
Addition and Subtraction of Capacities

Example How much do these two bottles hold altogether? What is the difference in capacity?

1 L 5 dL + 5 dL = 2 L

1 L 5 dL − 5 dL = 1 L

1 L 5 dL 5 dL

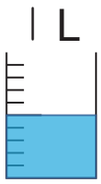
Calculate the following.

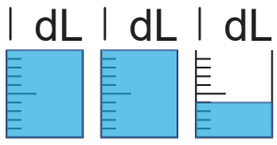
1. 2 L + 5 L = ☐ L
2. 3 dL + 6 dL = ☐ dL
3. 3 L 6 dL + 2 L = ☐ L ☐ dL
4. 1 L 7 dL + 8 dL = ☐ L ☐ dL
5. 500 mL + 350 mL = ☐ mL
6. 250 mL + 1 L 500 mL = ☐ L ☐ mL
7. 7 L − 4 L = ☐ L
8. 6 dL − 2 dL = ☐ dL
9. 4 L 3 dL − 1 L = ☐ L ☐ dL
10. 2 L 3 dL − 4 dL = ☐ L ☐ dL
11. 1000 mL − 350 mL = ☐ mL
12. 2 L 250 mL − 750 mL = ☐ L ☐ mL

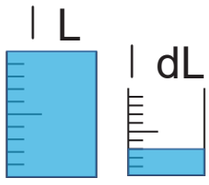
8 - 7 Capacity of Water

Review

1 Match the same capacities with a line.

1 

2 

3 

- 500 mL
- 1 L 30 mL
- 240 mL

2 Which container holds about 1000 mL?

1 Water tank

2 Mug

3 Milk carton

[ ] holds about 1000 mL.

3 Fill in the blanks.

1 4 L = [ ] dL

2 5 L = [ ] mL

3 30 dL = [ ] L

4 1 L 2 dL = [ ] mL

5 1000 mL = [ ] L

6 1300 mL = [ ] dL

4 Calculate the following.

1 3 L + 2 L = [ ] L

2 12 L − 3 L = [ ] L

3 1 L + 2 L 500 mL = [ ] L [ ] mL

4 1100 mL − 400 mL = [ ] mL