# Diving into Mastery

# Compare Capacity

## Ordering by Capacity

Sort these containers in order of capacity from smallest to greatest.

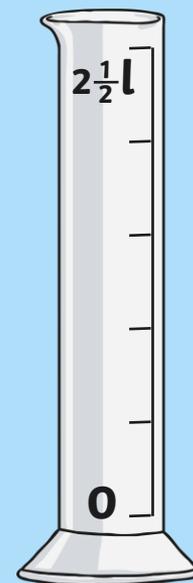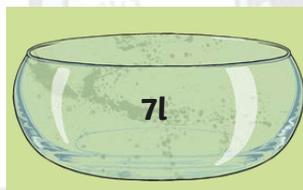| | | | | |
|---|---|---|---|---|
| 330ml | 7l | 1 litre 500ml | 5ml | $2\frac{1}{2}$l  0 |
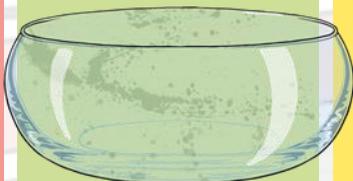
## Ordering by Capacity

Sort these containers in order of capacity from greatest to smallest.

First, convert each capacity to ml.

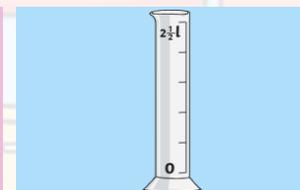| 330ml | 7l | 1 litre 500ml | 5ml | 2½l |
|---|---|---|---|---|
| 330ml | 7000ml | 1500ml | 5ml | 2500ml |

Next, order the measurements.

7000ml      2500ml      1500ml      330ml      5ml

Finally, match the objects to the newly ordered measurements.

| 7l | 2½l | 1 litre 500ml | 330ml | 5ml |
|---|---|---|---|---|
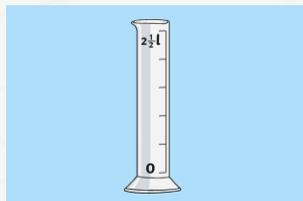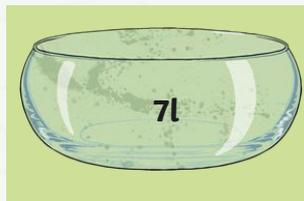
## Comparing Capacity

Use <, > or = to complete these statements.

| | | |
|---|:---:|---|
| 320ml | | 320l |
| 1000ml | | 1l |
| $3\frac{1}{4}$l | | 3200ml |
| 2l 30ml | | 2300ml |
| 2500ml | | $2\frac{1}{2}$l |

## Comparing Capacity

Use <, > or = to complete these statements.

| | | | |
|---|---|---|---|
| 320ml | **<** | 320l | **Millilitres are less than litres.** |
| 1000ml | **=** | 1l | **1 litre is 1000 millilitres.** |
| $3\frac{1}{4}$l | **>** | 3200ml | **$3\frac{1}{4}$l is 3 litres 250ml or 3250ml.** |
| 2l 30ml | **<** | 2300ml | **2l 30 ml is 2030ml.** |
| 2500ml | **=** | $2\frac{1}{2}$l | **½l is 500ml so 2½l is 2500ml.** |

## Who Do You Agree With?

Shane, Victoria and Jason are discussing different containers.



1 litre 500ml

15ml

$\frac{1}{4}$l

15l

500ml

Which statements do you agree with? Explain why. Explain what is wrong with any incorrect statements.

Shane says, "The volume of water in the spoon is more than the volume of water in the jug because the spoon is full and the jug is not."

Victoria says, "The bowl has the same capacity as ten bottles of water."

Jason says, "The capacity of the jug is greater than the capacity of the glass."

## Who Do You Agree With?

Shane, Victoria and Jason are discussing different containers.

| | | | | |
|---|---|---|---|---|
| **1 litre 500ml** | **15ml** | $\frac{1}{4}$l | **15l** | 500ml |

Which statements do you agree with? Explain why. Explain what is wrong with any incorrect statements.

Shane says, "The volume of water in the spoon is more than the volume of water in the jug because the spoon is full and the jug is not."
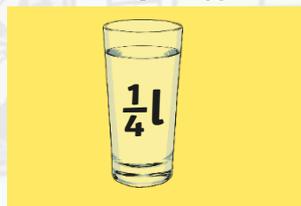
Victoria says, "The bowl has the same capacity as ten bottles of water."

Jason says, "The capacity of the jug is greater than the capacity of the glass."

**Shane is incorrect.
The spoon has 15ml of water in it whereas the jug has 200ml. 200ml is more than 15ml.**

**Victoria is correct.
Ten bottles would have a capacity of (10 × 1500ml) 15,000ml, which is 15l.**

**Jason is correct.
Capacity refers to the total amount of liquid a container could hold. The jug could hold 500ml, which is more than the 200ml that the glass could hold.**

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## Work It Out!

Otto, Freddie, Anja and Grace are comparing the capacity of different containers.
Use the information to work out which container each child chose.

| | | | |
|---|---|---|---|
| 750ml | 2l | 1l 500ml | 1900ml |
| **Container A** | **Container B** | **Container C** | **Container D** |

Chosen by      Chosen by      Chosen by      Chosen by

_____  _____  _____  _____

Freddie's container has a capacity of exactly $\frac{3}{4}$l more than Otto's.

The capacity of Anja's container is greater than the capacity of Freddie's but less than the capacity of Grace's.

## Work It Out!

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Use the information to work out which container each child chose.

| | | | |
|---|---|---|---|
| 750ml | 2l | 1l 500ml | 1900ml |
| **Container A** | **Container B** | **Container C** | **Container D** |
| Chosen by Otto | Chosen by Grace | Chosen by Freddie | Chosen by Anja |

Freddie's container has a capacity of exactly $\frac{3}{4}$l more than Otto's.

The capacity of Anja's container is greater than the capacity of Freddie's but less than the capacity of Grace's.

**The capacity of Anja's container is greater than the capacity of Freddie's but less than the capacity of Grace's.**

**Freddie's container has a capacity of 1l 500ml. Containers B and D both have capacities greater than this. Grace's shape has the greatest capacity so container B must be hers as 2l is greater than 1900ml.**

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