

Dear Parents/Carers,
This powerpoint takes the children through the learning sequence. If possible please talk through the slides with your child and check their understanding. The slides start at a basic level to re-cap previous learning.

Mass, Capacity and Temperature

15.5.20

15.5.20

LO: I can compare capacity



Mathematical Vocabulary

Capacity is the amount something can hold.

Volume is the amount of something in the container.

Try this out at home -

Get a jug. How many **millilitres (ml)** does the jug hold? This is the **capacity**.

Fill the jug with 250ml of water. This is the **volume**.

We measure liquid in **millilitres (ml)** and **litres (l)**.

There are 1000ml in 1l

Starter

Which container has the largest capacity?



Tell an adult your answer and explain your reasoning.

Starter - answer



Descriptive Teaching

The volume of the container below is a quarter full.

True or false?



Remember, the volume means how much liquid is in the container.

Descriptive Teaching - Answer

The volume of the container below is a quarter full.

True or false?



True

Descriptive Doing

Use $<$, $>$ and $=$ symbols to compare the capacity of container A with container B.

A







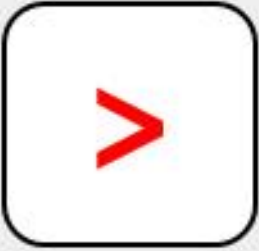


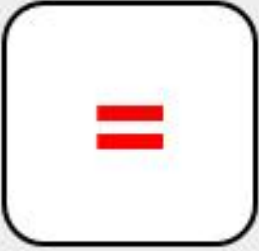

B



Which container do you think will hold more liquid? Use the greater than, less than and equal sign.
Tell an adult your answer.


Descriptive Doing - Answer

Use $<$, $>$ and $=$ symbols to compare the capacity of container A with container B.

A		B
		
		
		

Reflective Teaching

Draw a line to the word that best describes the volume of each container.



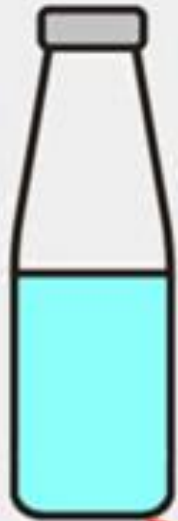
full quarter half three-quarters

The image shows a worksheet with three containers and four labels. The first container is a bottle with a grey cap, filled with blue liquid to the quarter mark. The second is a pitcher filled with orange liquid to the three-quarters mark. The third is a glass with a straw, filled with yellow liquid to the quarter mark. The labels 'full', 'quarter', 'half', and 'three-quarters' are positioned below the containers. The background of the worksheet has faint math symbols like plus, minus, multiply, divide, and equals.

Think back to fractions!

Reflective Teaching - Answers

Draw a line to the word that best describes the volume of each container.



full

quarter

half

three-quarters

Reflective Doing

Order these items from the largest capacity to the smallest capacity.



A



B



C



D

Tell an adult your answer.

Reflective Doing - Answers

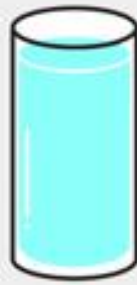
Order these items from the largest capacity to the smallest capacity.



C



A



B



D

largest capacity

smallest capacity

Independent work

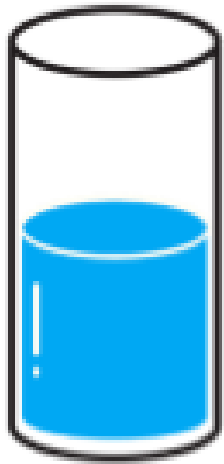
The following slides are questions for you to work through independently.

There are 3 sets of work - 1 chili (the easiest), 2 chilies, 3 chilies (the hardest). Choose one set you feel most comfortable with.

Independent work

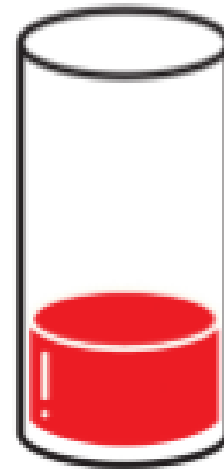


1a. The volume of the container is half full. True or false?



2 VF

1b. The volume of the container is nearly full. True or false?

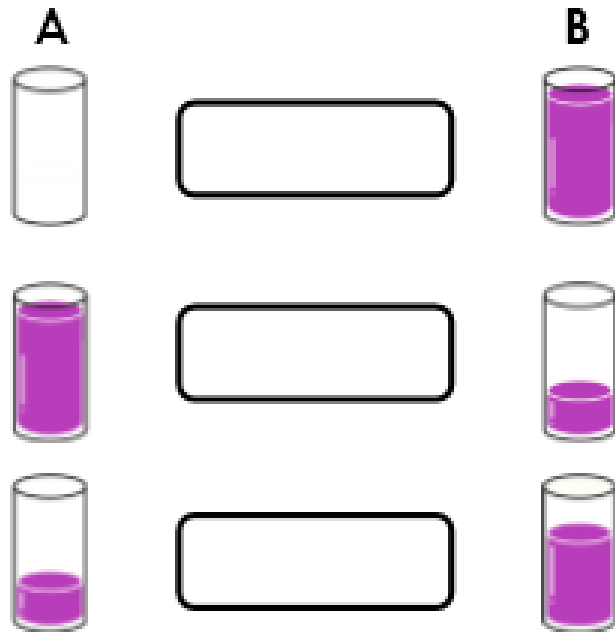


2 VF

Independent work

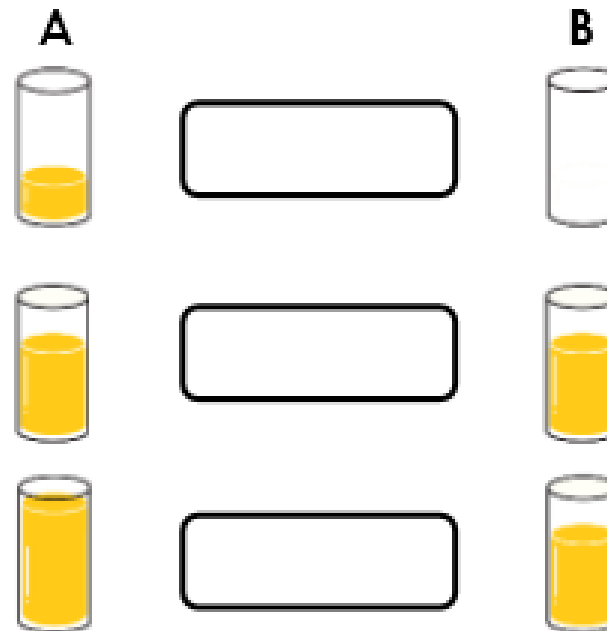


2a. Use the words more, less and equal, to compare the volume of container A with container B.



2 VF

2b. Use the words more, less and equal, to compare the volume of container A with container B.

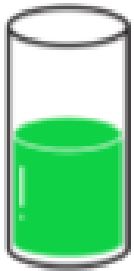


2 VF

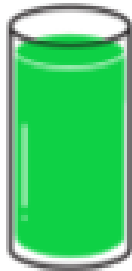
Independent work



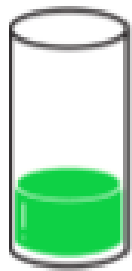
3a. Draw a line to the word that best describes the volume of each container.



nearly empty



full



half full



2 VF

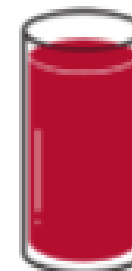
3b. Draw a line to the word that best describes the volume of each container.



half full



full

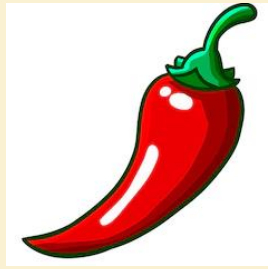


nearly empty

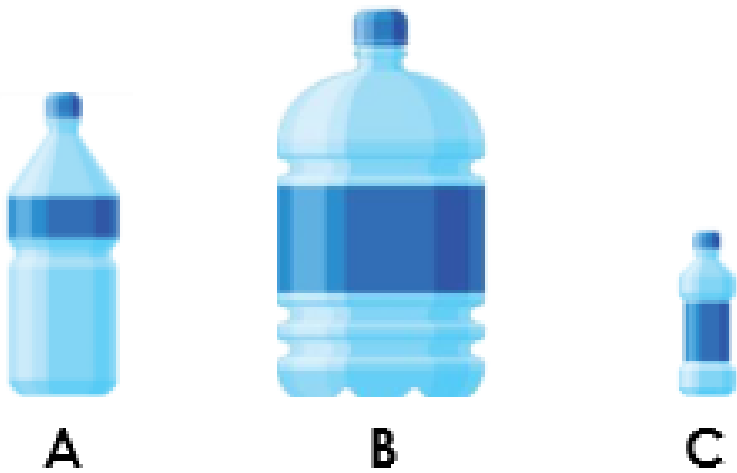


2 VF

Independent work

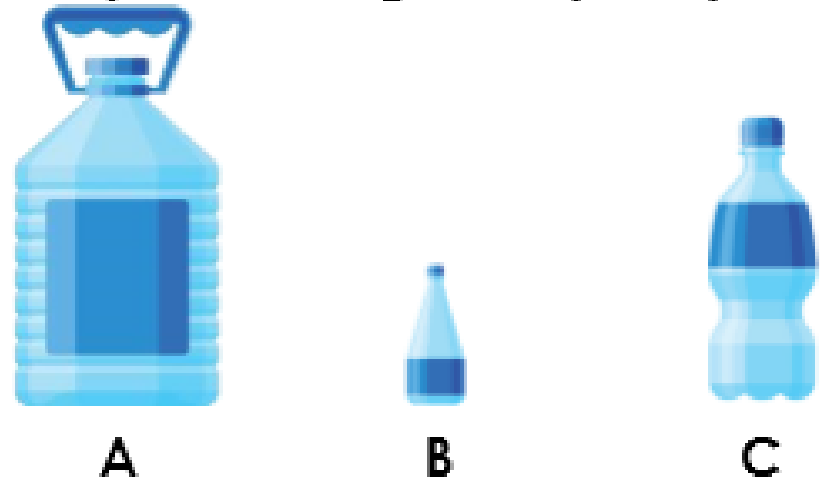


4a. Order these items from the largest capacity to the smallest capacity.



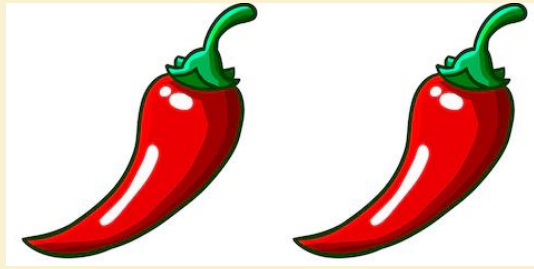
2 VF

4b. Order these items from the smallest capacity to the largest capacity.

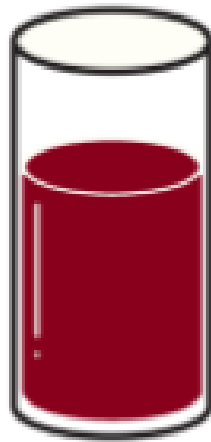


2 VF

Independent work

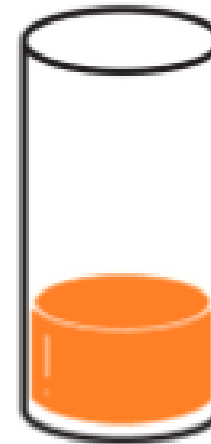


5a. The volume of the container below is a quarter full. True or false?



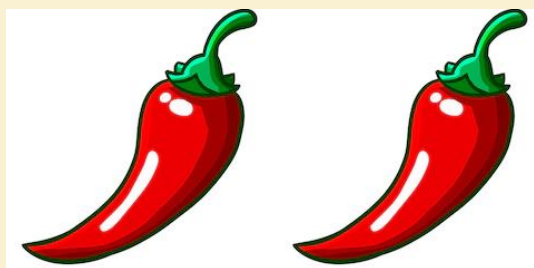
2 VF

5b. The volume of the container below is three quarters full. True or false?



2 VF

Independent work



6a. Use $<$, $>$ and $=$ symbols to compare the capacity of container A with container B.



2 VF

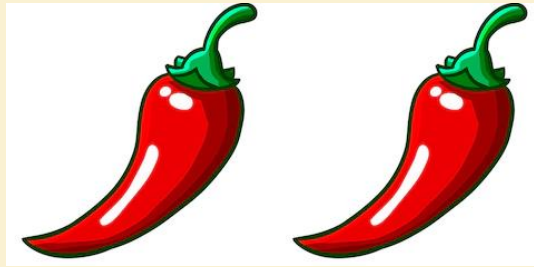
6b. Use $<$, $>$ and $=$ symbols to compare the capacity of container A with container B.



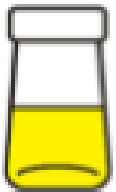
2 VF



Independent work



7a. Draw a line to the word that best describes the volume of each container.



full

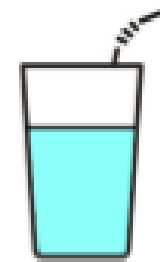
quarter

half

three-
quarters

2 VF

7b. Draw a line to the word that best describes the volume of each container.



quarter

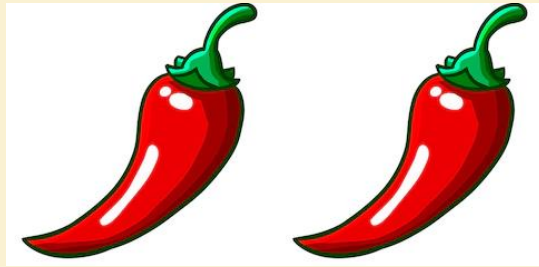
three-
quarters

full

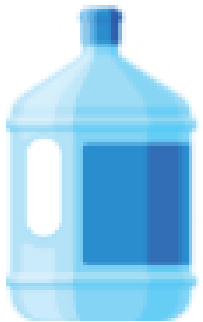
half

2 VF

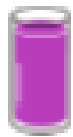
Independent work



8a. Order these items from the largest capacity to the smallest capacity.



A



B



C



D

2 VF



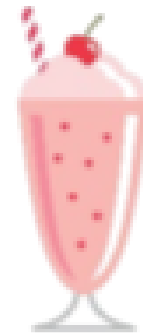
8b. Order these items from the smallest capacity to the largest capacity.



A



B



C



D

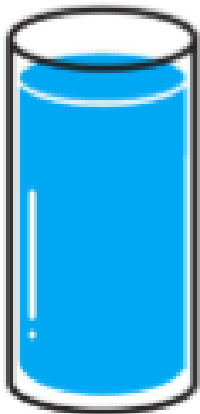
2 VF



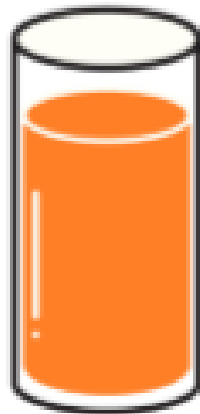
Independent work



9a. The capacity of container B is greater than the capacity of container A. True or false?



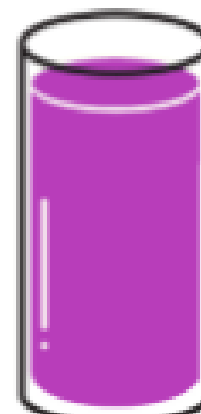
A



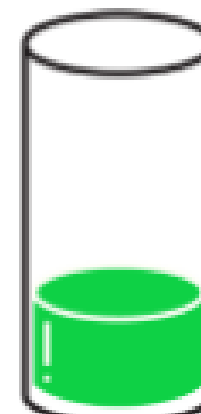
B

2 VF

9b. The volume of container A is greater than the volume of container B. True or false?



A



B

2 VF

Independent work

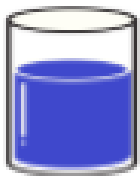


10a. Use $<$, $>$ and $=$ symbols to compare the capacity of container A with container B.

A



B



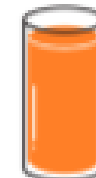
2 VF

10b. Use $<$, $>$ and $=$ symbols to compare the capacity of container A with container B.

A

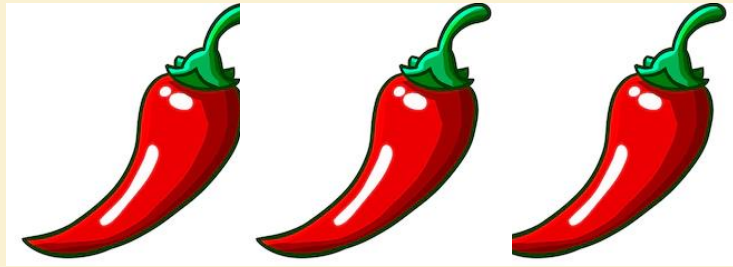


B

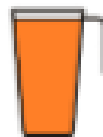
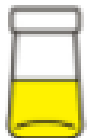


2 VF

Independent work



11a. Describe the volume of each container.



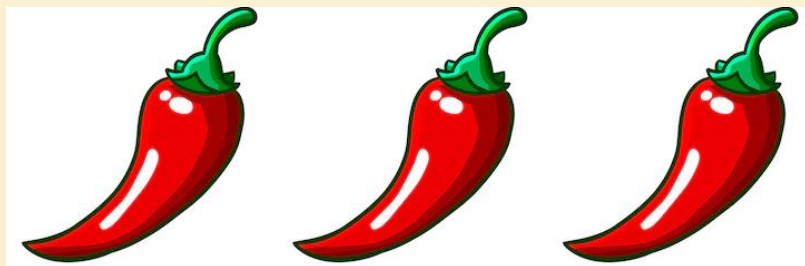
2 VF

11b. Describe the volume of each container.



2 VF

Independent work



12a. Order these items from the largest capacity to the smallest capacity.



A



B



C



D



2 VF

12b. Order these items from the smallest capacity to the largest capacity.



A



B



C



D



2 VF

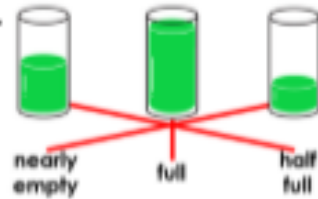
Answers

Developing

1a. True

2a. A is less than B, A is more than B, A is less than B

3a.



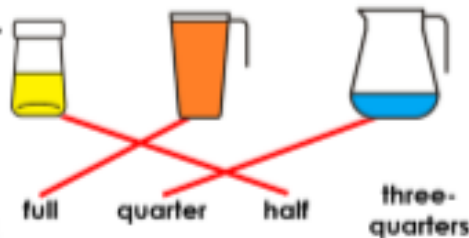
4a. B, A, C

Expected

5a. False, the container is three-quarters full.

6a. =, <, >

7a.



8a. A, C, D, B (Discussion may arise over widths/heights and the different effects this can have on the capacity).

Greater Depth

9a. False, the containers are the same capacity but have different volumes.

10a. <, =, >

11a. Quarter full, half full, full

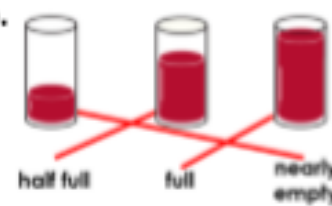
12a. B, D, C, A (Discussion may arise over widths/heights and the different effects this can have on the capacity).

Developing

1b. False, the container is nearly empty.

2b. A is more than B, A is equal to B, A is more than B

3b.



4b. B, C, A

Expected

5b. False, the container is a quarter full.

6b. >, =, <

7b.



8b. B, A, D, C (Discussion may arise over widths/heights and the different effects this can have on the capacity).

Greater Depth

9b. True

10b. =, <, <

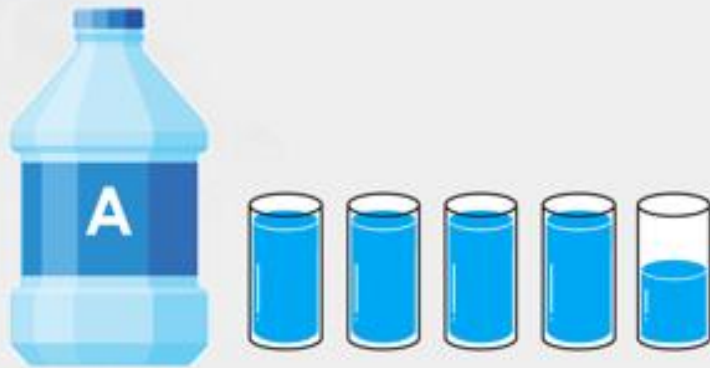
11b. Full, quarter full, half full

12b. D, B, A, C (Discussion may arise over widths/heights and the different effects this can have on the capacity).

Reflection Time

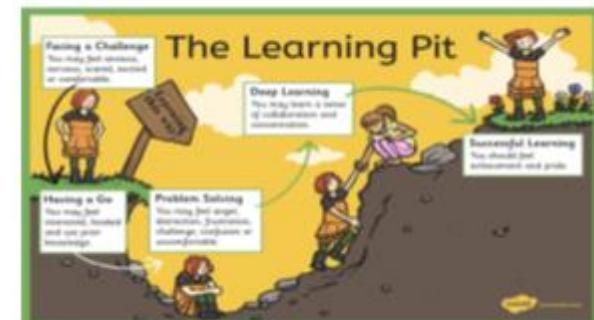



Which container has the largest capacity?



How do you know?

Take time
to reflect

A simple stick figure is positioned on a horizontal line, with its arms and legs spread out, as if it is standing on the line and reflecting.



Container A because it can hold 4 full glasses and 1 half glass which is more than 2 full glasses and 3 half glasses.

Take time
to reflect

