

## Year 1 maths – Summer 2 Week beginning: 29.06.20

Theme	<b>Lesson 1 (of 5)</b> Comparing volume and capacity	<b>Lesson 2 (of 5)</b> Finding volume and capacity	<b>Lesson 3 (of 5)</b> Finding volume and capacity	<b>Lesson 4 (of 5)</b> Describing volume using half and quarter	<b>Lesson 5 (of 5)</b> Describing volume using half and quarter
<b>Factual fluency (to aid fluency)</b>	Adult says a number. Child draws and writes a number that is greater than or less than the number E.g. 20 21 is greater than 20 19 is less than 20	Adult says a teen number. Child writes as many different addition equations to make that number as they can. E.g. 12 10+2=12 6+6=12 etc.	Adult says a teen number. Child writes as many different addition equations to make that number as they can. E.g. 12 10+2=12 +6=12 etc.	Halves of numbers below 20. Half of 4, 6, 8, 10, 12 etc. E.g. half of 4 is 2	Halves of numbers below 20. Half of 4, 6, 8, 10, 12 etc. E.g. half of 4 is 2
<b>Problem/activity of the day</b>  <b>Remember, just like in class, you can still show the depth of your knowledge</b> <a href="#">LINK</a>	<p><b>(Lesson 1 resources below)</b> <b><u>MAKING LINKS:</u></b> In year 1 we have used the words more than and less than to describe amounts. <b><u>THINK: (support below)</u></b> Can you help me with this problem? My friend has 3 beakers. Describe and compare the beakers using the words full, empty, more than and less than. Our problem is on <a href="#">textbook</a> page 114. Look at it now. Finished? Draw your own 3 beakers and describe them using the words full, empty, more than and less than. <b><u>SEE: (model below)</u></b> Watch this lesson <a href="#">video</a>. Different ways to solve the problem are shown on page 114 of your textbook. <b><u>DO:DO:</u></b> Use what you have learnt today to solve: Part 1: Questions a and b on <a href="#">textbook</a> page 115. Part 2: Solve the problems below and <a href="#">Workbook</a> page 127.</p>	<p><b>(Lesson 2 resources below)</b> <b><u>MAKING LINKS:</u></b> In year 1 we have used the word unit to describe the item we were using to measure. <b><u>THINK: (support below)</u></b> Can you help me with this problem? My friend has filled a bottle and a cup with water. Which has a greater capacity?  Our problem is on <a href="#">textbook</a> page 116. Look at it now.  Finished? Draw the capacity of each container, how much greater is the capacity of the bottle?  <b><u>SEE: (model below)</u></b> Watch this lesson <a href="#">video</a>. Different ways to solve the problem are shown on page 116 of your textbook.  <b><u>DO:</u></b> Use what you have learnt today to solve: Part 1: Questions a and b on <a href="#">textbook</a> page 117. Part 2: <a href="#">Workbook</a> pages 128 and 129.</p>	<p><b>(Lesson 3 resources below)</b> <b><u>MAKING LINKS:</u></b> Yesterday we found the volume and capacity of different containers. Remind yourself what these words mean. <b><u>THINK: (support below)</u></b> Can you help me with this problem? My friend wants to find out and compare the capacity of 2 containers. Estimate the capacity of each container using cups as our unit of measure. Use the words <b>more than</b> and <b>less than</b> to describe the capacity of the containers. Watch this lesson <a href="#">video</a> to see if you were right. Our problem is in the <a href="#">THINK section</a> below. Finished? Which container had a greater volume of water?  <b><u>SEE: (model below)</u></b> SEE model below  <b><u>DO:</u></b> Use what you have learnt today to solve: Part 1: Questions 1-4 in DO section. Part2: Deepening.</p>	<p><b>(Lesson 4 resources below)</b> <b><u>MAKING LINKS:</u></b> We have learnt about halves and quarters. Watch this <a href="#">video</a> as a reminder. <b><u>THINK: (support below)</u></b> Can you help me with this problem? My friend has 6 containers. Which container can hold half as much water as container D? Which container can hold a quarter as much water as container D? Our problem is on <a href="#">textbook</a> page 118. Look at it now.  Finished? How is this problem similar to splitting shapes into halves and quarters?  <b><u>SEE: (model below)</u></b> Watch this lesson <a href="#">video</a>. Different ways to solve the problem are shown on page 119 of your textbook. <b><u>DO:</u></b> Use what you have learnt today to solve: Part 1: Questions a, b, c and d on <a href="#">textbook</a> page 121. Part 2: Solve the problems below and <a href="#">Workbook</a> pages 130 and 131.</p>	<p><b>(Lesson 5 resources below)</b> <b><u>MAKING LINKS:</u></b> Yesterday we described volume using half and a quarter. <b><u>THINK: (support below)</u></b> Can you help me with this problem? My friend has a tank and 2 beakers. The volume of the tank is 8 units. Beaker A's capacity is 3 units and beaker B's capacity is 5 units. How can my friend fill the tank and beaker B with 4 units each? Then describe beaker A and B using these words: <b>more than half</b> or <b>less than half</b>. Our problem is on <a href="#">textbook</a> page 122. Look at it now. Finished? If the tank was a quarter full, how many units would be inside? <b><u>SEE: (model below)</u></b> Watch this lesson <a href="#">video</a>. See solution below. <b><u>DO:</u></b> Use what you have learnt today to solve: Part 1: Complete the problems below. Part 2: <a href="#">Workbook</a> pages 133 and 134.</p>
<b>Methods, tips, clues &amp; checks</b>	See answer sheet below.	See answer sheet below.	See answer sheet below.	See answer sheet below.	See answer sheet below.

**See below for resources to support you to THINK-SEE-DO**

**DAY 1 RESOURCES:**

**THINK:** Describe and compare the beakers using the words **full**, **empty**, **more than** and **less than**.



**DO:**





**Part 1:** Questions a and b on textbook page 115.


**Part 2:** Complete the problems below then move onto workbook page 127.


Use these words to fill in the gaps.





1. Describe the cups.

a.  b.  c.  d. 

2. The amount of water in  is

the amount of water in 

3. The amount of water in  is

the amount of water in 

**SEE:** Watch this lesson [video](#).



This cup is **full**.  
I cannot fit any more water in here.



This cup is **empty**.  
There is no water in here.

The amount of water in this cup  is **more than** the amount of water in this cup 

The amount of water in this cup  is **less than** the amount of water in this cup 

**DAY 2 RESOURCES:**

**THINK:**



Which container has the greater capacity?

**Capacity**= how much the container can hold

**Volume**= how much is currently in the container.

**SEE:** Watch this lesson [video](#).



Water from Container **A** fills 3 cups.

The **capacity** of container **A** is 3 units.

**DO:**

**Part 1:** Questions a and b on textbook page 117.

**Part 2:** Workbook pages 128 and 129.

Count each cup carefully and write the number in the box.

Remember: 1 unit =



Water from container **B** fills 2 cups.

The **capacity** of container **B** is 2 units.

Container **A** had a **greater capacity** than container **B**.

Container **A** held a **greater volume** of water than container **B**.

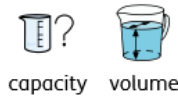
**DAY 3 RESOURCES:**

**THINK:**



Estimate the capacity of each container.

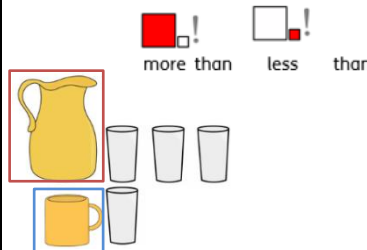
**Capacity**= how much the container can hold  
**Volume**= how much is currently in the container.



**DO:**

**Part 1:** Solve the problems below.

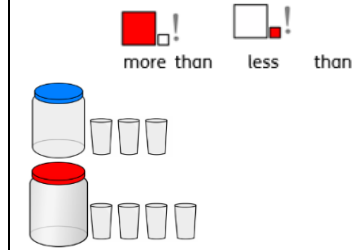
1. Compare the capacity using more than and less than.



The capacity of the **jug** is  the capacity of the **mug**.

The capacity of the **mug** is  the capacity of the **jug**.

2. Compare the capacity using more than and less than.



The capacity of the **blue jar** is  the capacity of the **red jar**.

The capacity of the **red jar** is  the capacity of the **blue jar**.

**SEE:** Watch this lesson [video](#).



Water from the bottle fills 1 cup.

The **capacity** of the water bottle is 1 unit.



Water from the jug fills 2 cups.

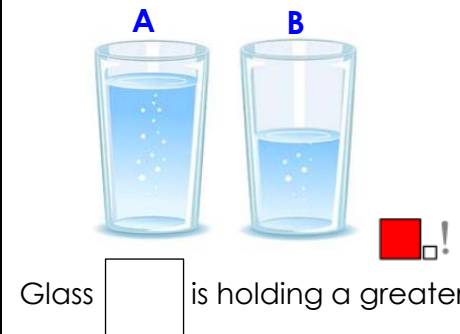
The **capacity** of the jug is 2 units.

The **capacity** of the jug is **more than** the **capacity** of the water bottle.

The **capacity** of the water bottle is **less than** the **capacity** of the jug.

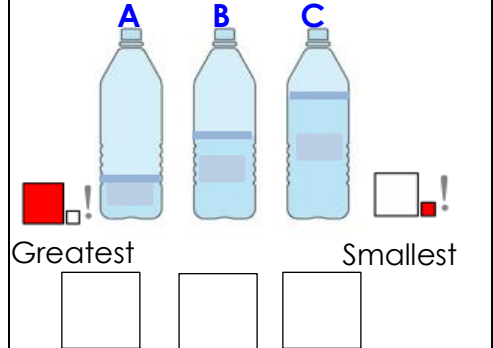
The jug can hold a **greater volume** of water than the bottle.

2. Which glass has a greater volume of water?



Glass  is holding a greater volume of water.

4. Order the bottles starting with the bottle with the greatest volume of water?



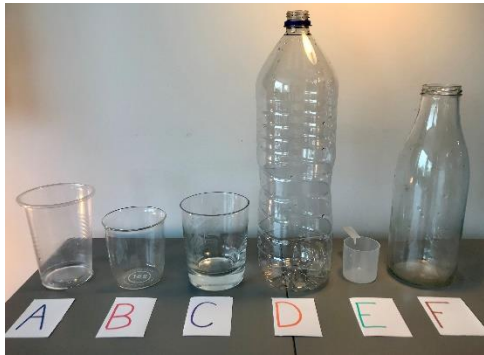
Greatest    Smallest

**Part 2:** Deepening: My friend wasn't here today. Can you explain to them what volume and capacity are to help them understand? Draw and write to explain.



**DAY 4 RESOURCES:**

**THINK:**



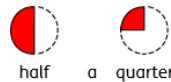
Which container can hold half as much water as **D**?

Which container can hold a quarter as much water as **D**?



**Half**= an amount split into 2 equal parts.

**Quarter**= an amount split into 4 equal parts.



**DO:**

**Part 1:** Questions a, b, c and d on textbook page 121.

**Part 2:** Complete the problems below then move onto Workbook pages 130 and 131.

1. Fill in the gaps.

half half

half a quarter

The capacity of 1 glass is  the capacity of the jug.

2. Fill in the gaps.

quarter quarter quarter quarter

half a quarter

The capacity of 1 glass is  the capacity of the tank.

3. Colour in the correct number of glasses.

quarter quarter quarter quarter

half a quarter

The bottle is a **quarter** full.

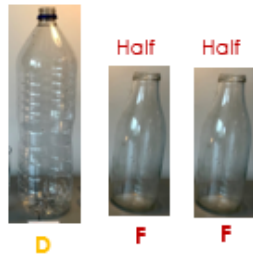
4. Colour in the correct number of glasses.

half half

half a quarter



The vase is **half** full.

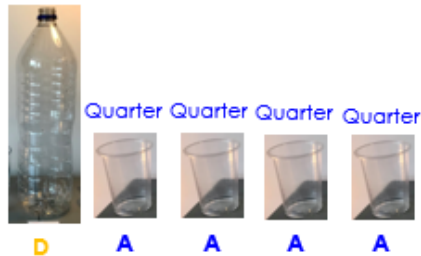
**SEE:** Watch this lesson [video](#).



If we fill container **F** with water and pour it into container **D** it is **half full**.



If we fill container **F** with water again and pour it into container **D** it is **full**.

The **capacity** of  is **half** the **capacity** of .



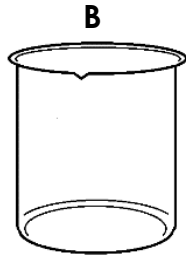
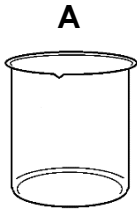
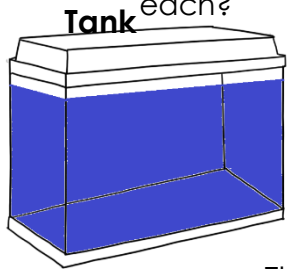
If we fill container **A** with water and pour it into container **D** it is a **quarter full**.

If we fill container **A** with water and pour it into container **D** 4 times it is **full**.

The **capacity** of  is a **quarter** of the **capacity** of .

**DAY 5 RESOURCES:**

**THINK:** How can the tank and beaker B have 4 units of water each?



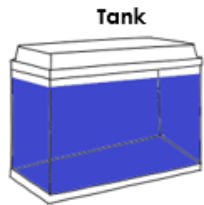
Half= an amount split into 2 equal parts  
Quarter= an amount split into 4 equal parts

The volume of water in the tank is **8 units**

The capacity of beaker A is **3 units**

The capacity of beaker B is **5 units**

**SEE:** Watch this lesson [video](#).



The **volume** of water in the **tank** is **8 units**.



We need to pour **4 units** of water from the **tank** into beaker **B**.

**Half** of 8 is 4. We need to pour half the **volume** of the **tank** into beaker **B**.



The **volume** of water in the **tank** is **4 units**.



The **volume** of water in beaker **B** is 4 units.

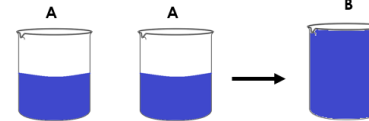
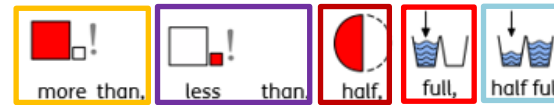
The **capacity** of beaker **A** is **less than half** the **capacity** of the **tank**.

The **capacity** of beaker **B** is **more than half** the **capacity** of the **tank**.

**DO:**

**Part 1:** Complete the problems below.

1. Fill in the gaps using these words:



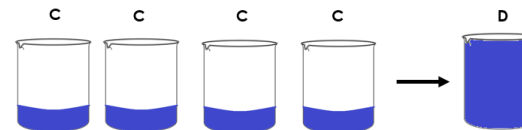
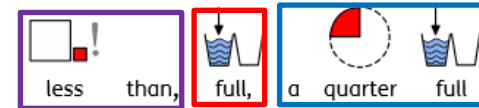
Beaker A is

Beaker B is

The volume of water in B is  than the volume in A.

The volume of water in A is  or  the volume in B.

2. Fill in the gaps using these words:



Beaker C is

Beaker D is

The volume of water in C is  the volume in D.

**Part 2:** Workbook pages 133 and 134.

## ANSWERS – part 1:

<u>Day 1</u>	<u>Day 2</u>	<u>Day 3</u>	<u>Day 4</u>	<u>Day 5</u>
a. More than Less than b. More than Less than	a. 5 b. 3	1. More than Less than 2. Less than More than 3. A 4. C, B, A	a. A quarter b. Half c. Half d. 2	1. Half full Full More than Less than Half 2. A quarter full Full Less than

## ANSWERS – Part 2:

<u>Day 1</u>	<u>Day 2</u>	<u>Day 3</u>	<u>Day 4</u>	<u>Day 5</u>
1a. full 1b. empty 1c. empty 1d. full  2. more than 3. less than  <u>Workbook</u> a. Full Empty Full Empty b. Less than More than c. More than Less than	a. 6 b. 4 c. 10 d. 3 e. 5 f. 8	Deepening: Volume is how much is currently in a container. Capacity is how much the container can hold.	1. Half 2. A quarter 3. Colour 1 glass 4. Colour 1 glass  <u>Workbook</u> 1a. half 1b. a quarter of 1c. half- full  2a. colour 1 beaker 2b. colour 1 glass 2c. colour 1 glass 2d. colour 2 beakers	<u>Workbook</u> 1a. half- full Full More than Less than Half 1b. full A quarter 2a. colour 6 glasses 2b. colour 9 glasses 2c. colour 3 glasses