



Year Five Maths Lesson 5



Fluency Starter

- Keep up your daily practice of 5 a day <https://corbettmathsprimary.com/5-a-day/> and challenge yourself to Bronze, Silver, Gold or Platinum!
- Or Complete Flashback 4 for your daily starter (on the next slide).
- Log on to Doodlemaths for 15 minutes each day and try and keep in the Green Zone.
- There are also some Maths activities on Purple Mash to complete.



Fluency Starter

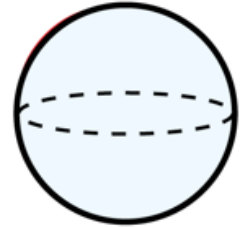
Flashback 4

Year 5 | Week 11 | Day 5

- 1) Estimate the capacity of a mug.

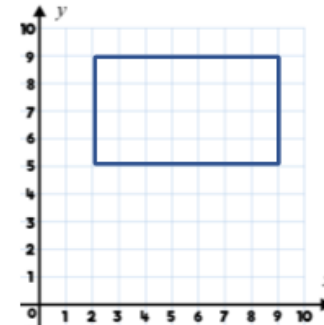


A. 30 ml B. 300 ml C. 900 ml



- 2) 7 week and 3 days = days

- 3) What are the coordinates of the vertices of the rectangle?



- 4) Write 17% as a decimal and a fraction.



Fluency Starter Answers

Flashback 4

Year 5 | Week 11 | Day 5

1) Estimate the capacity of a mug.

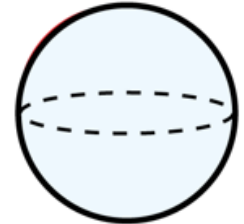


A. 30 ml

B. 300 ml

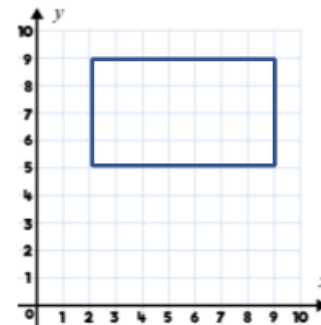
C. 900 ml

B. 300 ml



2) 7 week and 3 days = days

3) What are the coordinates of the vertices of the rectangle?



(2,5) (2,9)

(9,5) (9,9)

4) Write 17% as a decimal and a fraction.

0.17 $\frac{17}{100}$



Lesson Aims

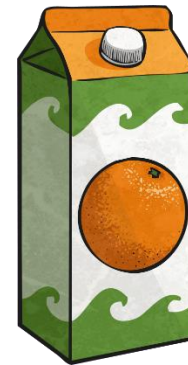
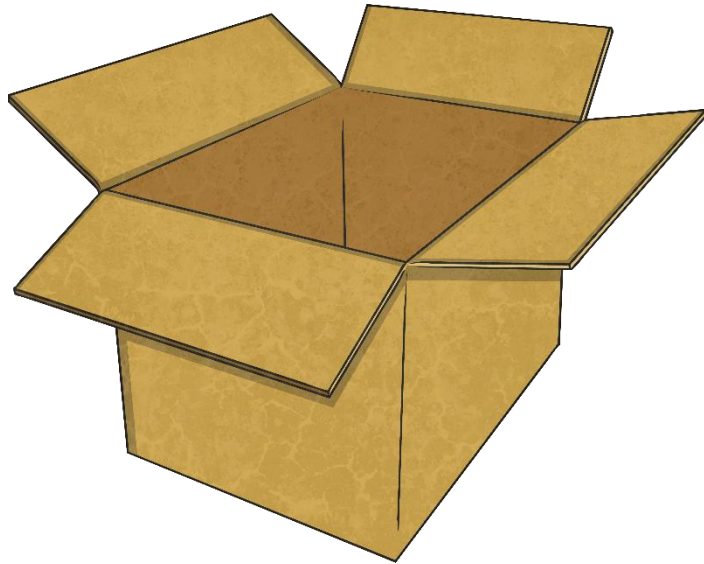
- I can measure and compare volume and capacity



What is Volume?

Think about it – can you come up with a definition?

Volume is the measure of the space taken up by a liquid or solid – the total space inside a container.





Units of Volume

Think about it – do you know the unit of measurement for volume?

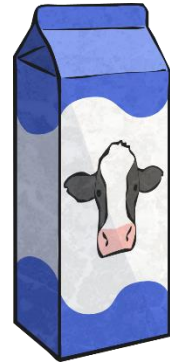
Volume is measured in cubic units.

Think about it – how many cubic units measurements do you know?

mm^3

cm^3

m^3





Units of Capacity

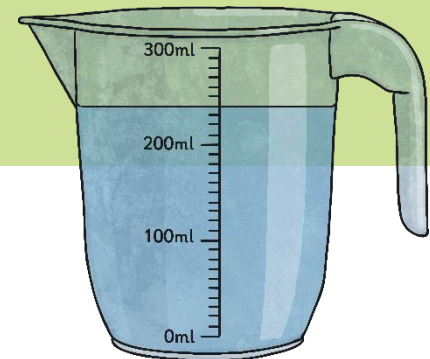
Capacity is another type of volume that measures liquids.
Think about it – do you know what unit of measurement is used for capacity?

Millilitres (ml)

centilitres (cl)

litres (l)

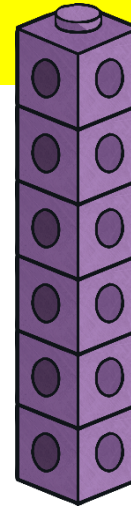
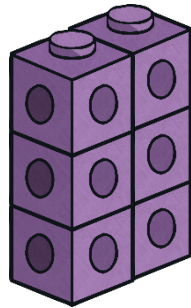
Each 1cm^3 is equivalent to 1ml. Each 1000cm^3 is equivalent to 1l.





Talk About It

What is the volume of each stack of cubes?



Each stack of cubes is made up of 6 individual cubes making 6 cubic units in each.

Does the shape of the stack affect the volume?

If the shape has the same number of cubes, it can have any arrangement and still have the same volume.

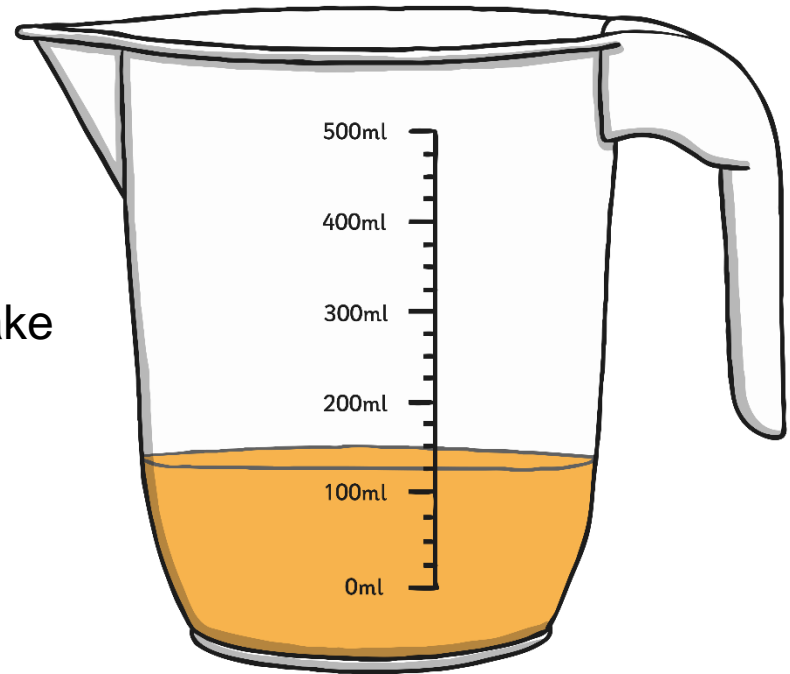


Talk About It

Some orange juice concentrate is poured into a jug.

What volume of water is needed to make 500ml of juice?

$$500\text{ml} - 125\text{ml} = 375\text{ml}$$





Do It

Cube Challenge

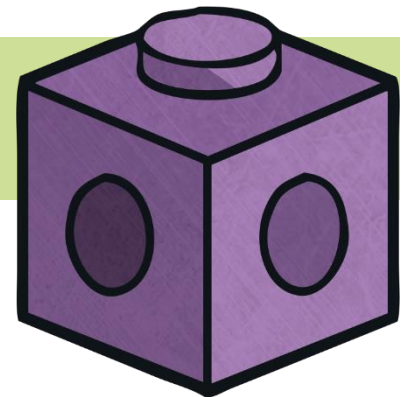
Use this activity sheet to record your findings.

Volume of the Classroom

Use this activity sheet to record your findings.

Growing Cubes

Use this activity sheet to record your findings.





Summarise It

Share your findings from the activity you completed.

What was easy for you?

What was challenging?

What strategies did you use to complete the task?

What have you learned about volume and capacity?



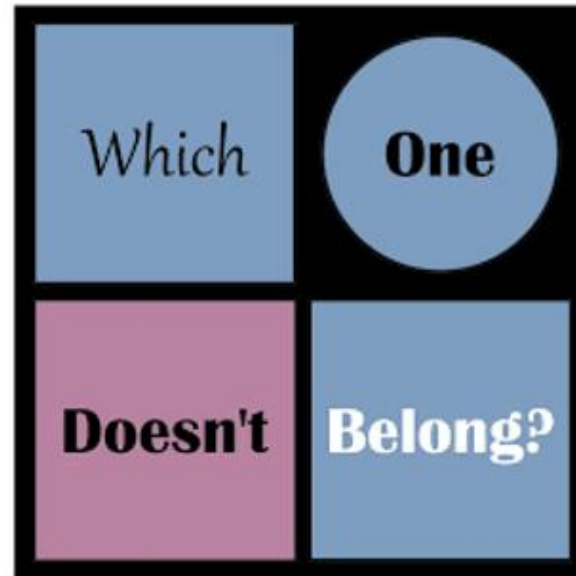


Fluency Activity

- See activity sheet Day 5
- Complete as many questions as you are able.



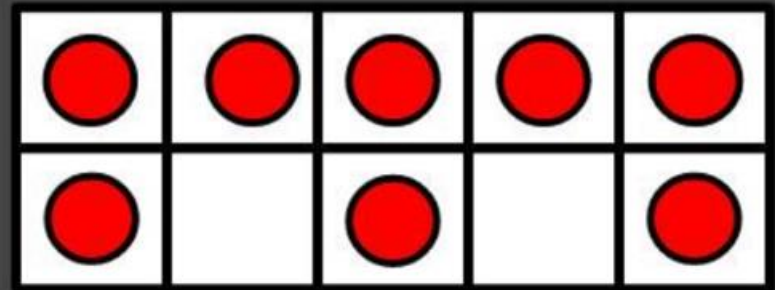
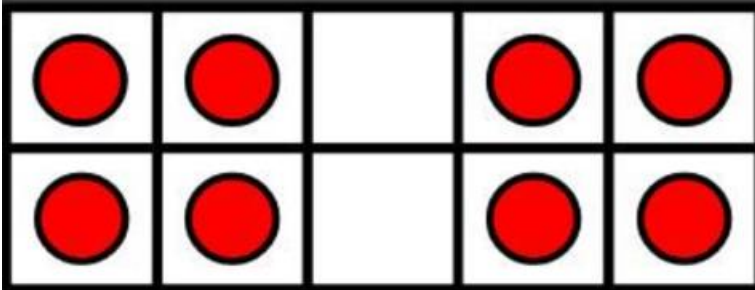
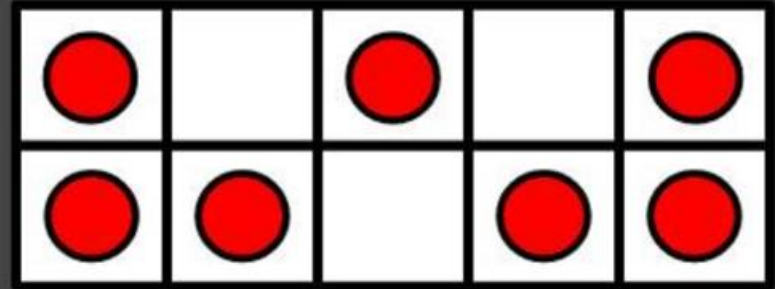
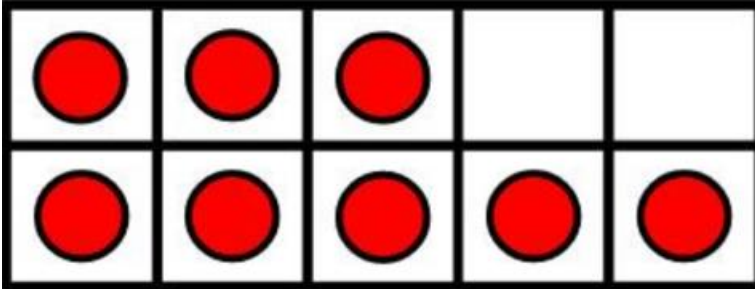
Problem Solving





Problem Solving

- How many ways can you find?





Problem Solving

- How many different ways did you find?
- Can you explain your reasoning?