

Year Five Maths Lesson 1



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



Year 5 | Week 11 | Day 1



Programme	Start time	Finish time	
Doctor Who	10:45	II:30	
Star Wars	II:30	12:20	
Where's Wally	12:20	13:00	

- 2) Subtract 27 cm from 2.8 m. Give your answer in m.
- 3) How many kg are the same as 320 g?
- 4) Subtract 100 from 2,041





Fluency Starter Answers

Flashback



Year 5 | Week 11 | Day 1



Programme	Start time	Finish time
Doctor Who	10:45	II:30
Star Wars	II:30	12:20
Where's Wally	12:20	13:00

Star Wars

- 2) Subtract 27 cm from 2.8 m. Give your answer in m. 2.53m
- 3) How many kg are the same as 320 g? 0.32 kg
- 4) Subtract 100 from 2,041 1,941





Lesson Aims

• I can find the volume of each shape

White Rose Maths

What is volume?

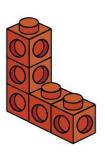


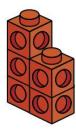
Dexter has made some 3D shapes using cubes.











a) What is the same about the 3D shapes he has made?

Compare answers with a partner.





1	b)	What is different about the 3D shapes he has made?		
		Compare answers with a partner.		
	c)	What is the volume of each of Dexter's 3D shapes?		
				cubes

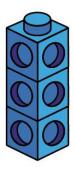




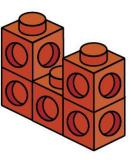


2 What is the volume of each 3D shape?

a)



c)



volume = cubes

volume = cubes

b)



d)



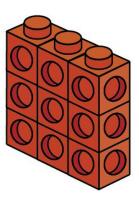
volume = cubes

volume = cubes



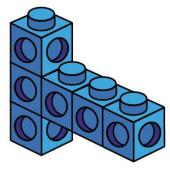
2

e)

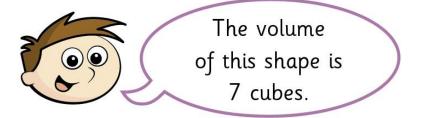


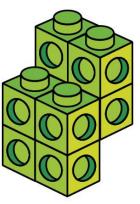
volume = cubes

f)



volume = cubes







Do you agree with Teddy? ______ Explain your answer.

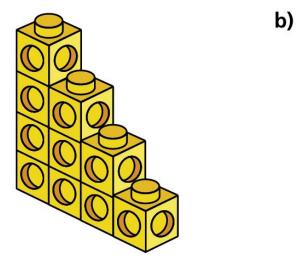


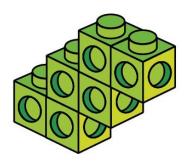




Each cube has a volume of 1 cm³
What is the volume of each shape?

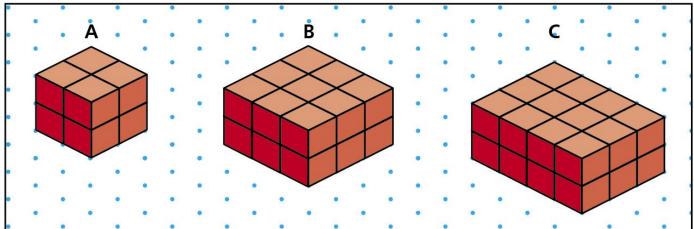
a)

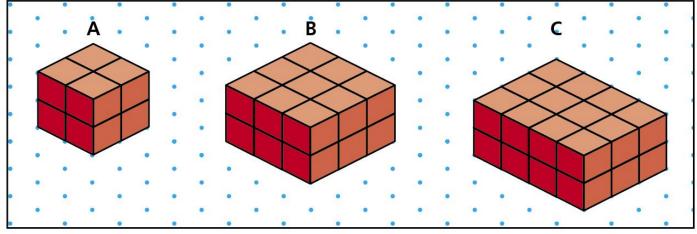






Three cuboids are drawn on isometric paper.





a) How many cubes are needed to make each cuboid?

cubes Α

cubes В

cubes C

b) If each cube has a side length of 1 cm, what is the volume of each cuboid?

 cm^3 Α

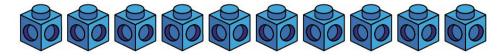
 cm^3 В

 cm^3 C

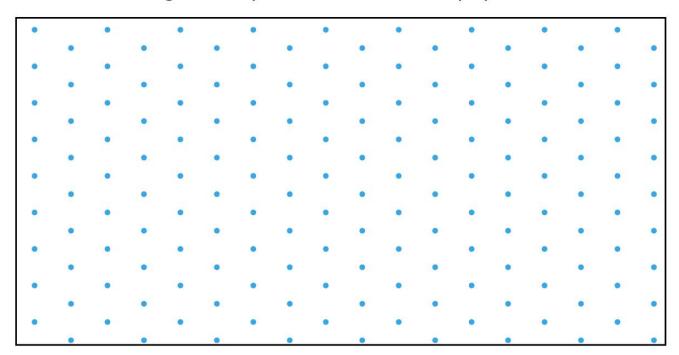




Ron is making 3D shapes using 10 cubes.



- a) Use cubes to investigate the different shapes Ron can make.
- b) Draw three of your shapes on the isometric paper.











c) What is the volume of each of your shapes?



d) Compare answers with a partner.
What is the same and what is different?





Fluency Activity Answers

What is volume?



1 Dexter has made some 3D shapes using cubes.







a) What is the same about the 3D shapes he has made?

They are all made using 5 cures

Compare answers with a partner.

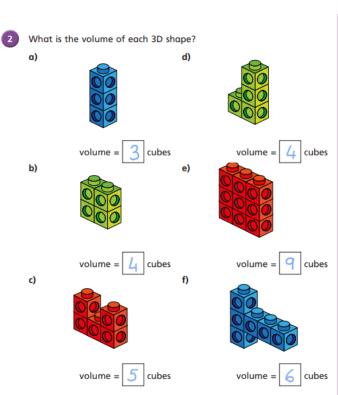
b) What is different about the 3D shapes he has made?

The way the cubes are arranged

Compare answers with a partner.

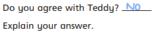
c) What is the volume of each of Dexter's 3D shapes?







The volume of this shape is





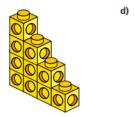




Fluency Activity Answers

Each cube has a volume of 1 cm³ What is the volume of each shape?

a)

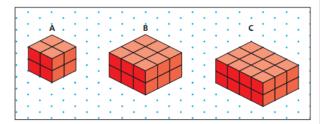




volume =



Three cuboids are drawn on isometric paper.



- a) How many cubes are needed to make each cuboid?
 - cubes
- B 18 cubes
- cubes
- b) If each cube has a side length of 1 cm, what is the volume of each cuboid?

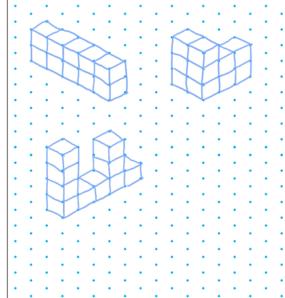


Ron is making 3D shapes using 10 cubes.



- a) Use cubes to investigate the different shapes Ron can make.
- b) Draw three of your shapes on the isometric paper.

Various answers e.a.



- c) What is the volume of each of your shapes?
- d) Compare answers with a partner. What is the same and what is different?







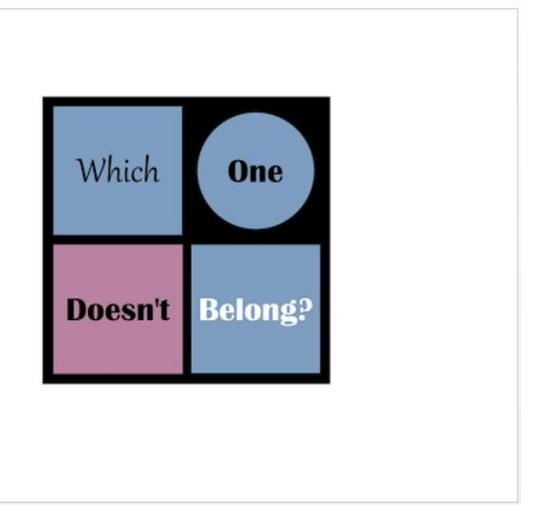




cubes



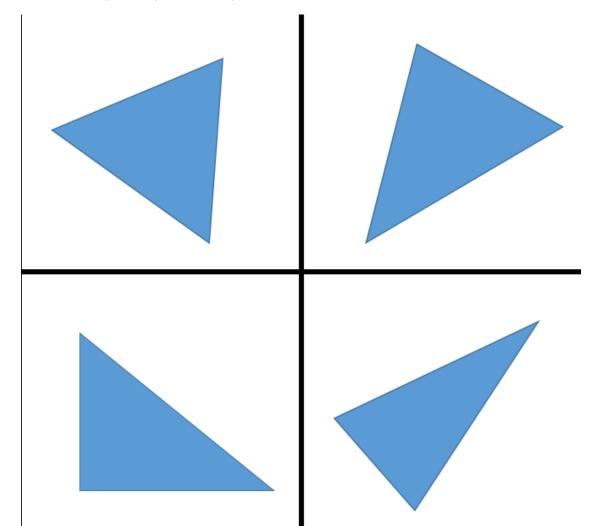
Problem Solving





Problem Solving

• How many ways can you find?





Problem Solving

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