wer play

this game of three-in-a-row with a partner. You will need: different ured counters, a dice and this railway timetable.

RT						
enhill	06:42	10:02	13:22	16:42	20:02	23:22
vton	06:57	10:17	13:37	16:57	20:17	23:37
od End	07:18	10:38	13:58	17:18	20:38	23:58
ngton	07:27	10:47	14:07	17:27	20:47	00:07
vich	07:42	11:02	14:22	17:42	21:02	00:22
ford	08:05	11:25	14:45	18:05	21:25	00:45

a counter on START.

a dice. Move your counter that number of squares right. Roll the again. Move your counter that number of squares down.

a fact about the square you land on. For example, if you have d a 3 and a 4, you could say: 'The twenty-two minutes past 1 train Greenhill arrives at Amington at seven minutes past 2.'

u and your partner agree this is a correct fact, e your plastic counter on the square.

turns with your partner, nating between moving to eft, right, up and down.

winner is the first person to three counters in a row.

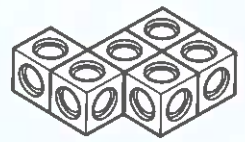
Try inventing your own game where your partner has to work out the time different trains take!

→ Textbook 5C p192

What is volume?

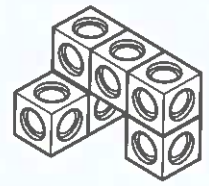
1 What is the volume of each shape?

a)



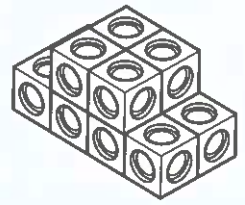
Volume = ☐ unit cubes

c)



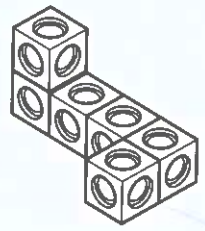
Volume = ☐ unit cubes

e)



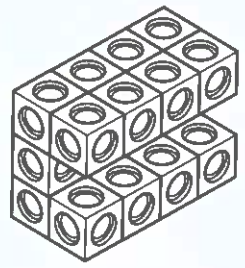
Volume = ☐ unit cubes

b)



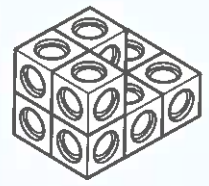
Volume = ☐ unit cubes

d)



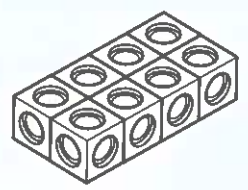
Volume = ☐ unit cubes

f)

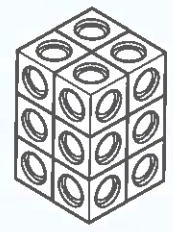


Volume = ☐ unit cubes

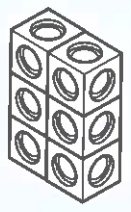
2 Match the shapes to the correct volume.



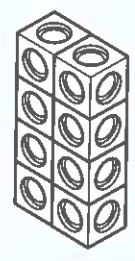
6 unit cubes



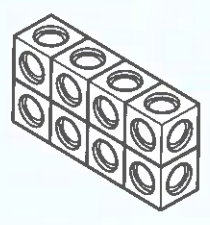
8 unit cubes

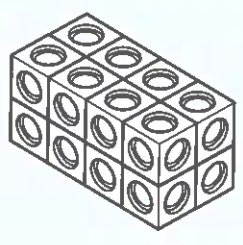


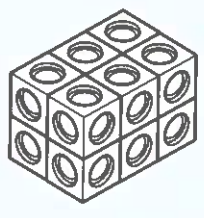
12 unit cubes



16 unit cubes

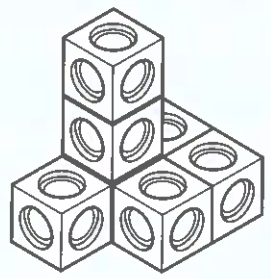






Richard

The volume of this 3D shape is 6 unit cubes.



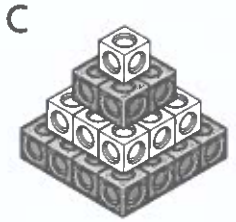
Do you think Richard is correct? Explain your answer.

What is the volume of each of the following shapes?

A

B

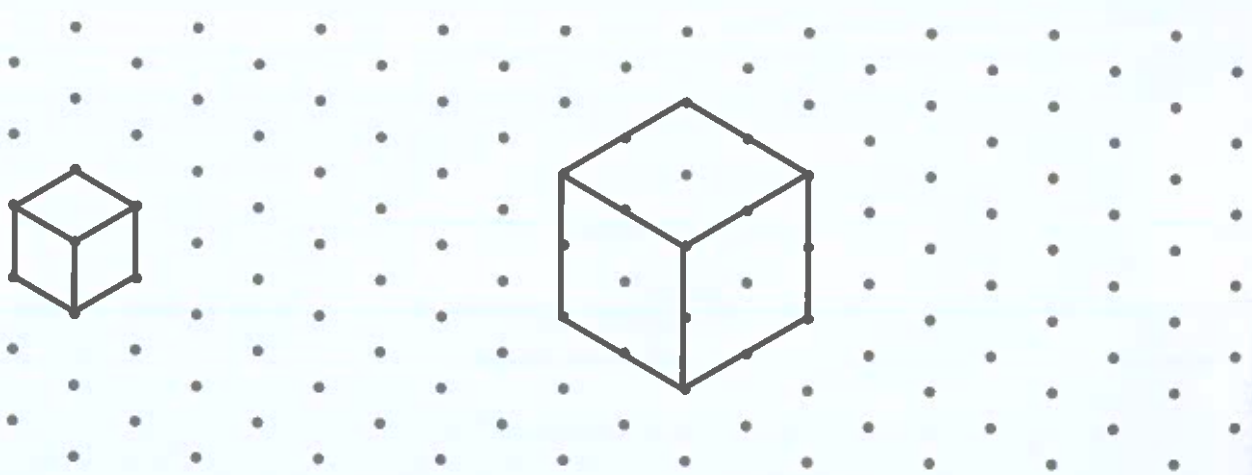
C



Shape	Volume
Shape A	5 unit cubes
Shape B	☐ unit cubes
Shape C	☐ _____

Explain how you got your answers.

Draw a copy of each cube on the isometric grid.



CHALLENGE

6 Max uses 4 unit cubes to make a 3D shape.

Draw as many different 3D shapes as you can with 4 unit cubes on the isometric grid below.

Reflect

Explain what is meant by volume. How do you measure volume?