WEDNESDAY 15/7/20
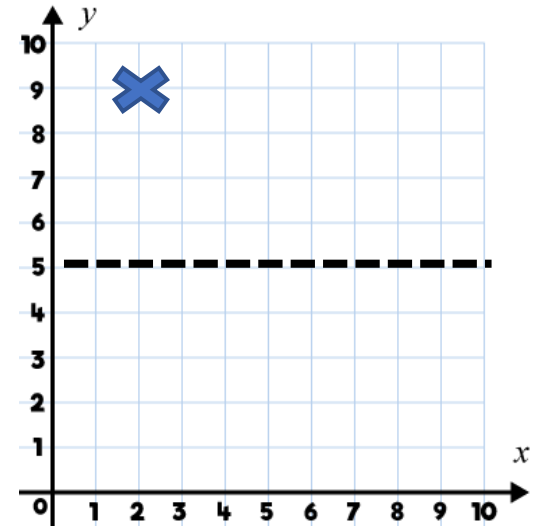
VOLUME

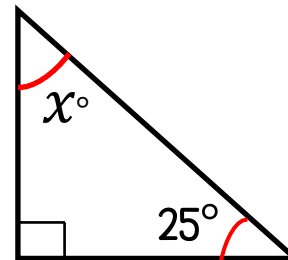1)   Complete the number sentence using <, > or =

8.2 km   820 m

2)   What will the coordinates of the cross be if it is reflected in the mirror line?

3)   Work out the missing angle.
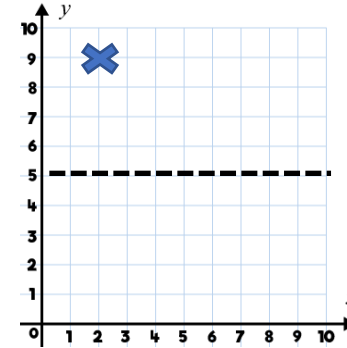
$x°$

25°

4)   Work out $7^2 + 3^3$

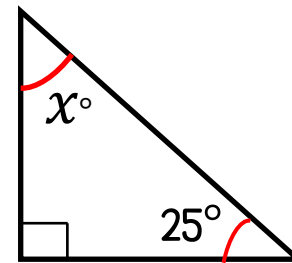1)   Complete the number sentence using <, > or =

8.2 km (>) 820 m

2)   What will the coordinates of the cross be if it is reflected in the mirror line?

(2,1)

3)   Work out the missing angle.

$x°$

65°

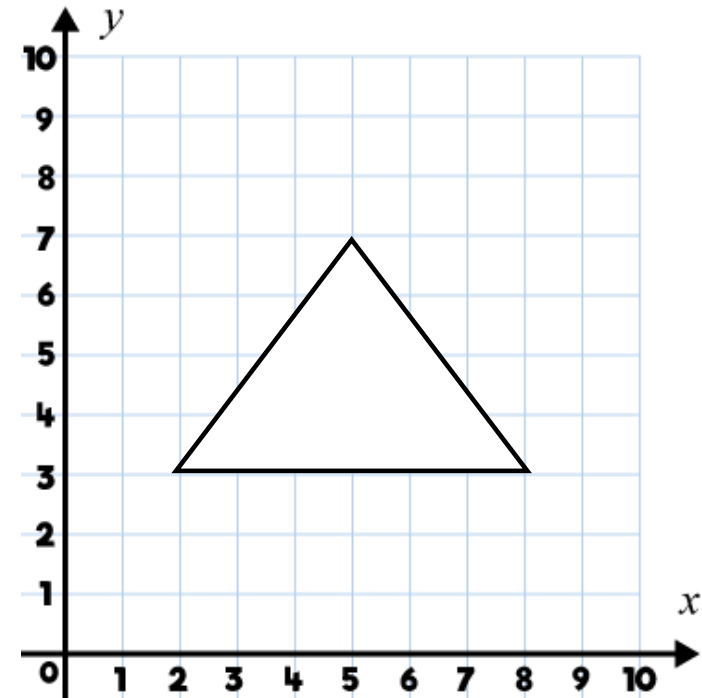25°

4)   Work out $7^2 + 3^3$ 76

π

1)   What are the missing numbers?

50 months = [ ] years [ ] months

2)   How many ml are the same as 5.75 litres?

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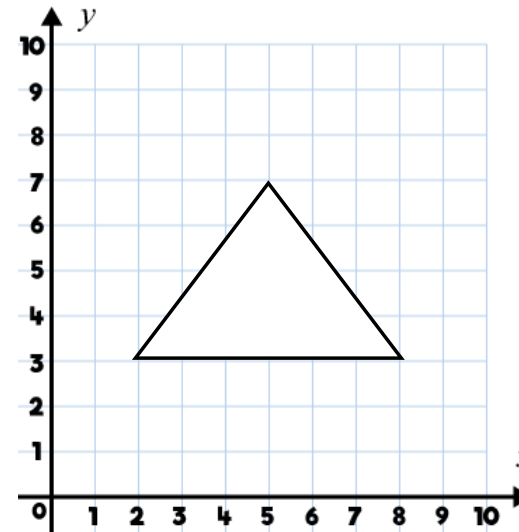the vertices of the triangle?

4)   Calculate 54 × 27

1)   What are the missing numbers?

50 months = | 4 | years | 2 | months

2)   How many ml are the same as 5.75 litres?   5,750 ml

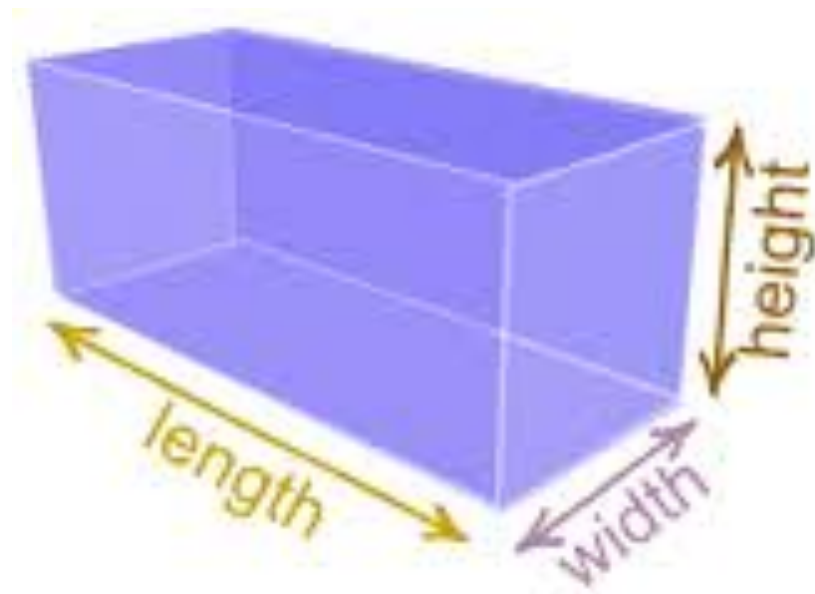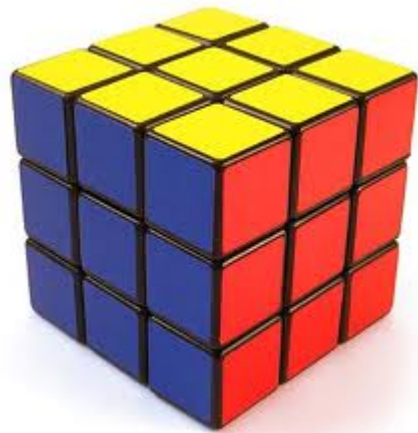3)   What are the coordinates of the vertices of the triangle?   (2,3) (8,3) (5,7)
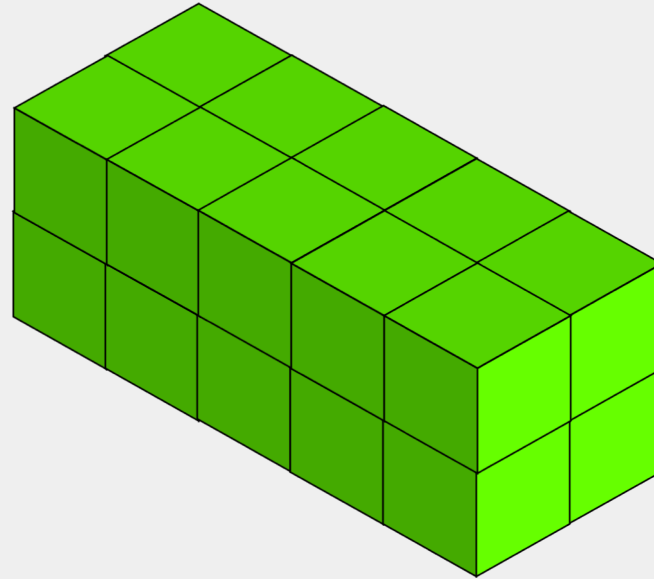
4)   Calculate 54 × 27   1,458

VOLUME

The amount of *space* something takes up

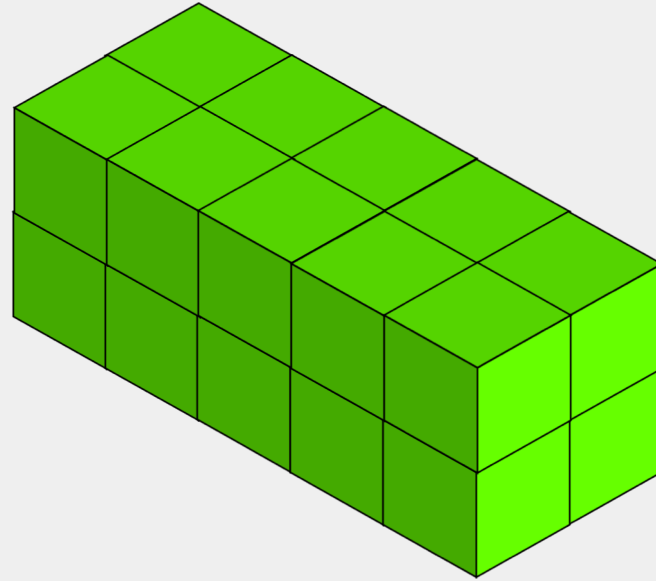# We are learning to find the volume of cuboids and cubes

Complete the stem sentences to show the volume of this cuboid.

The cuboid is made up of _____ 1cm cubes.
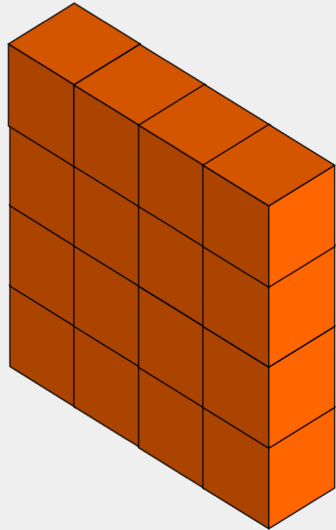The volume of the cuboid is _____ cm³.

Complete the stem sentences to show the volume of this cuboid.

The cuboid is made up of <u>20</u> 1cm cubes.
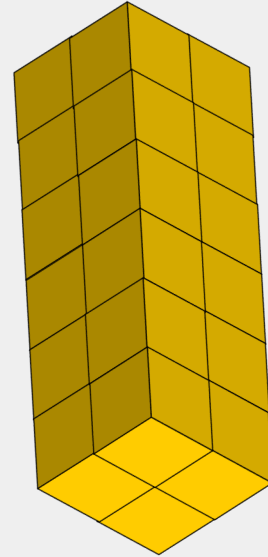The volume of the cuboid is <u>20cm^3</u>.

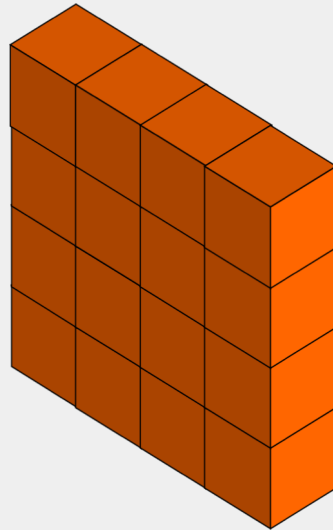Count the cm cubes to work out the volume of the cuboids.

A.

B.

A =   cm³

B =   cm³
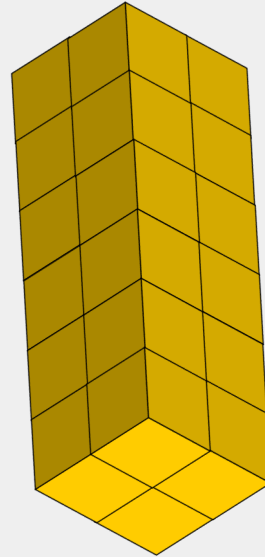
Count the cm cubes to work out the volume of the cuboids.

A.

B.

A = 16 cm³

B = 24cm³

What happens if you can't count the cubes?

We use measurements. What are these called?

?

?

?

Height
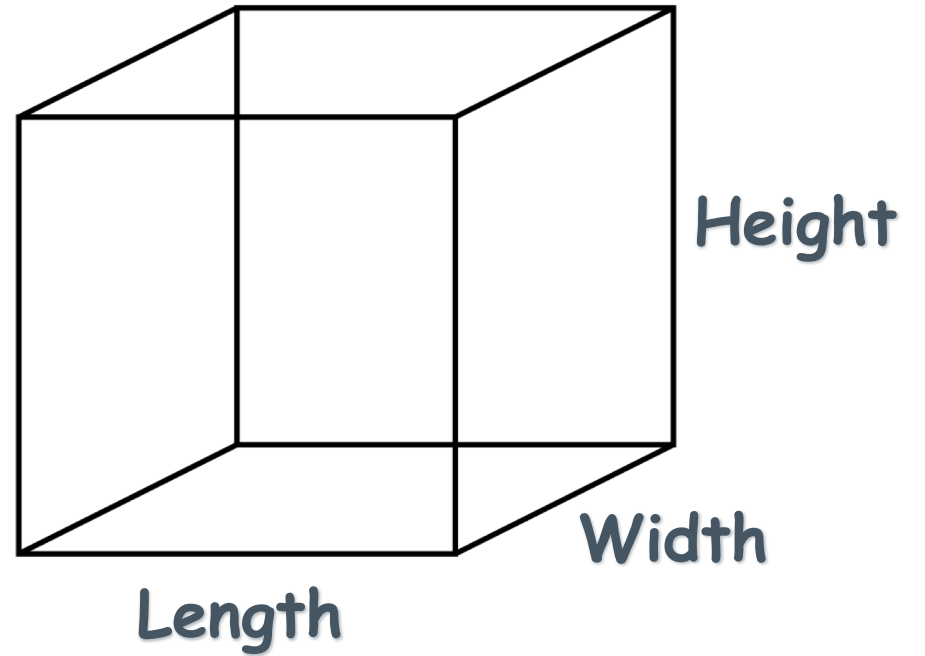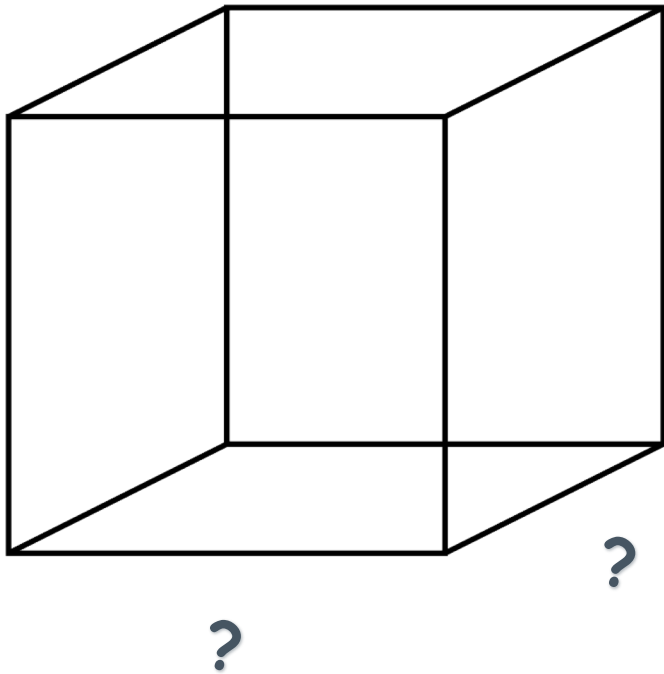
Width

Length

To find the VOLUME:

Length x breadth x height = volume

L x B x H = V

Some people use:

length x *width* x height = volume

Or

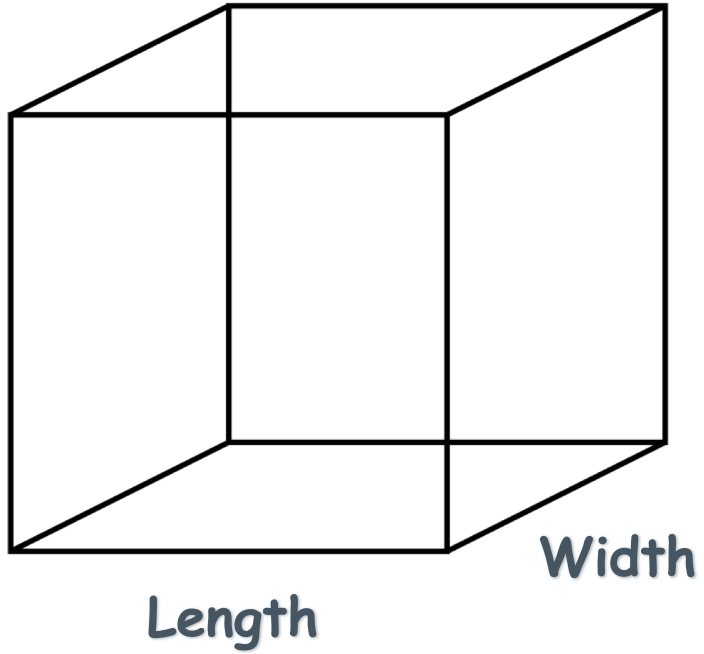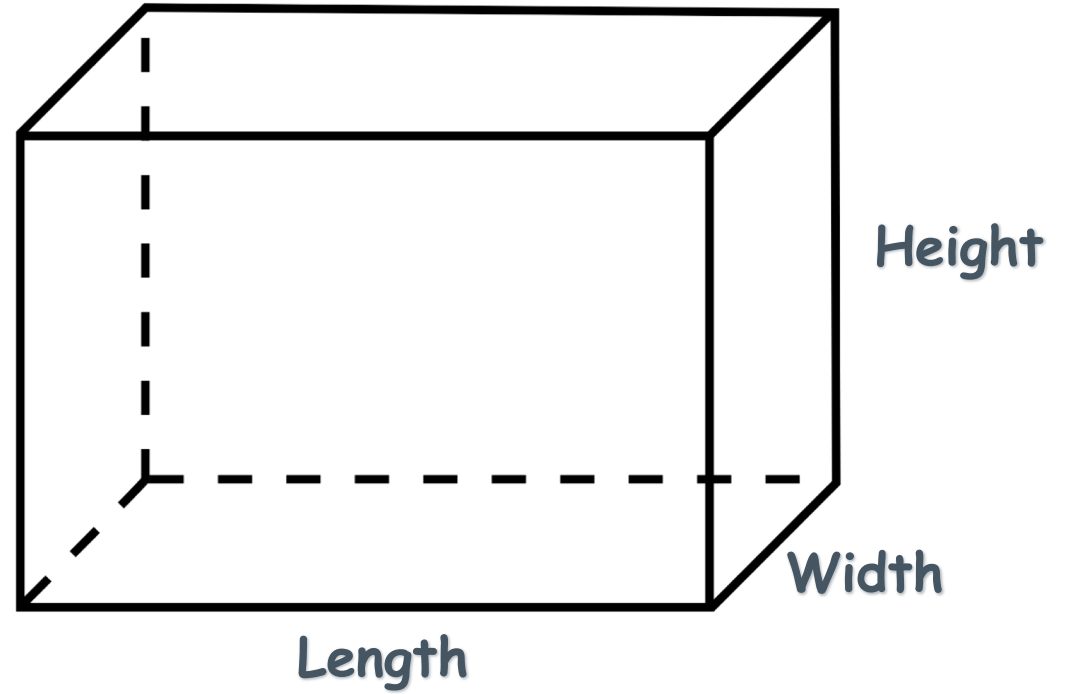length x *depth* x height = volume

They means the SAME thing!

Volume = length x width x height
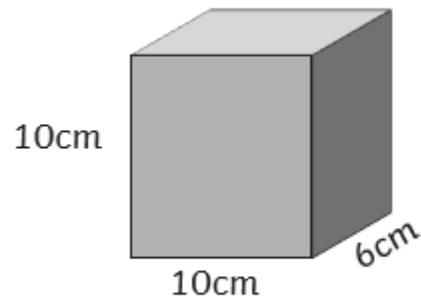
Volume = length x width x height

Volume = 5 x 5 x 5
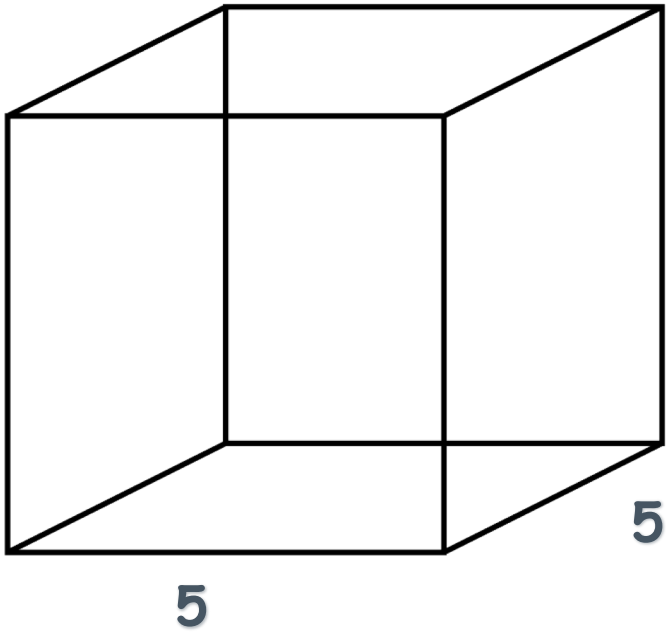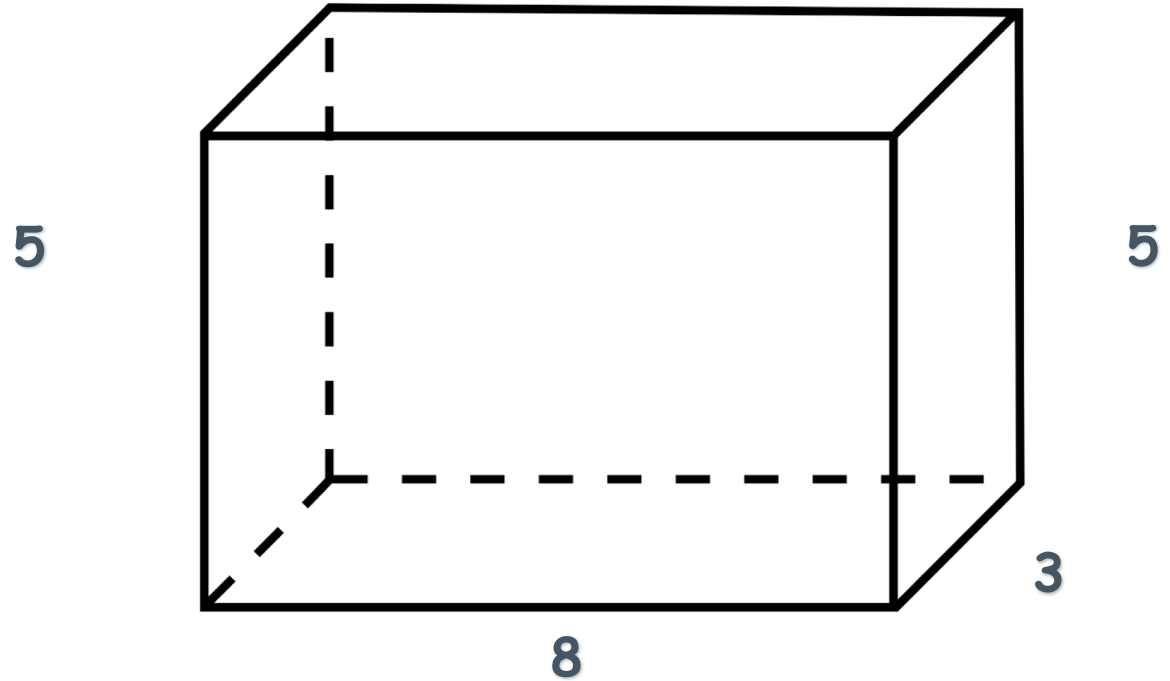
Volume = 8 x 3 x 5

What would the volume of each shape be?

Questions

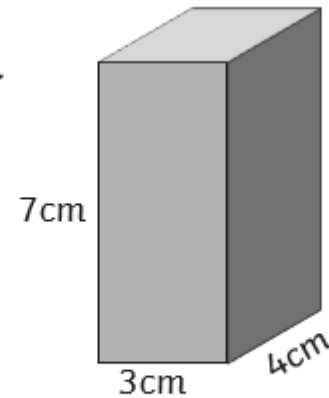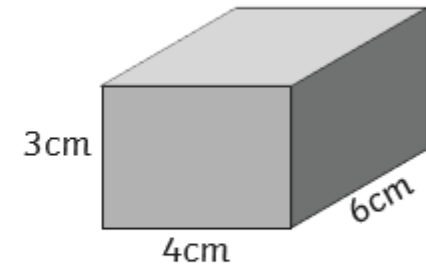On your desk/on the class web page are questions like these. Please complete in your books.

1.

10cm

10cm   6cm

Volume = [   ]

2.

6cm

5cm   9cm

Volume = [   ]

3.

7cm

3cm   4cm

Volume = [   ]

4.

3cm

4cm   6cm
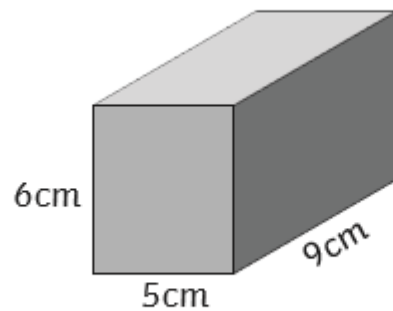
Volume = [   ]

Extra Challenge

Calculate the Volume of Cuboids

Complete this table:

Length (cm)	Width (cm)	Height (cm)	Volume (cm³)
5	20		300
11	6	6	
4		9	432
9	9	3	
14	11		154
15		7	420

Extra Challenge

Calculate the Volume of Cuboids

Complete this table:

Length (cm)	Width (cm)	Height (cm)	Volume (cm³)
5	20	3	300
11	6	6	396
4	12	9	432
9	9	3	243
14	11	1	154
15	4	7	420

Cube A and cuboid B have the same volume.

Not to scale

6 cm

4 cm

A

B

6 cm

?
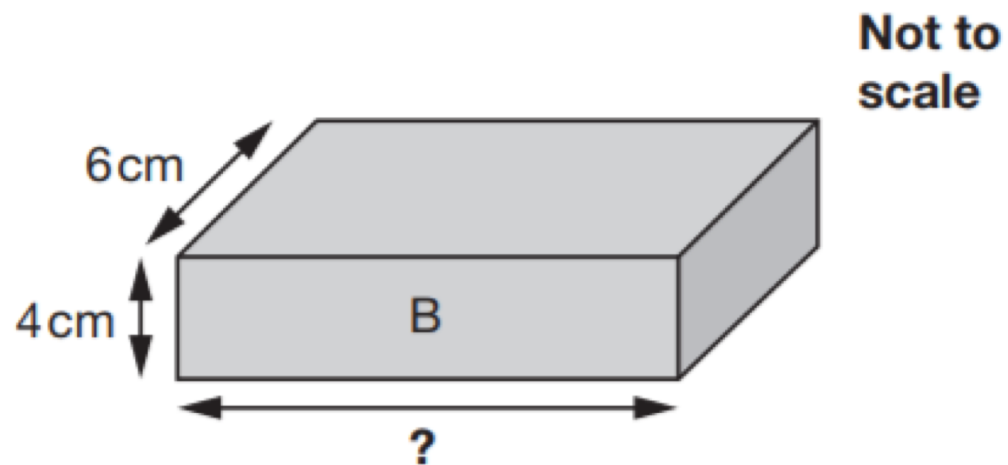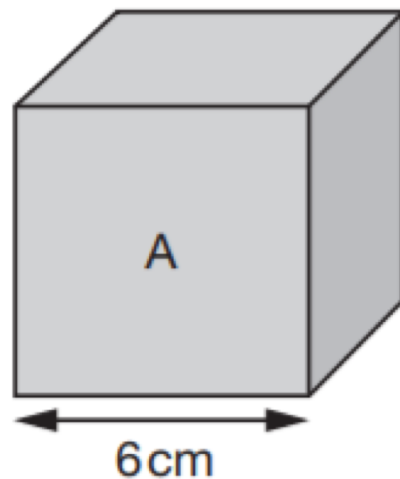
Calculate the missing length on cuboid B.

Volume = Length x width x height

What is the most efficient method for solving this question?