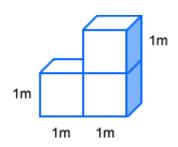
Year 8 Volume Progress Test

Question 1

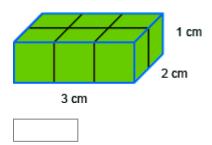
What is the volume of this prism?



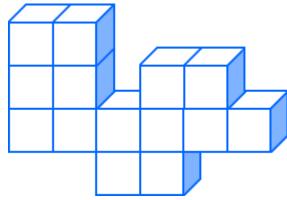
- a. 3² cm
- b.3 m³
- c. 3³ m
- d.4 m³

Question 2

How many centimetre cubes make a rectangular prism that is 3 cm long, 2 cm wide and 1 cm high?



Question 3



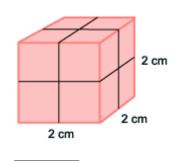
This 3D object is made from millimetre cubes.

What is its volume?



Question 4

How many cubic centimetres are in a cube with side lengths 2 cm?

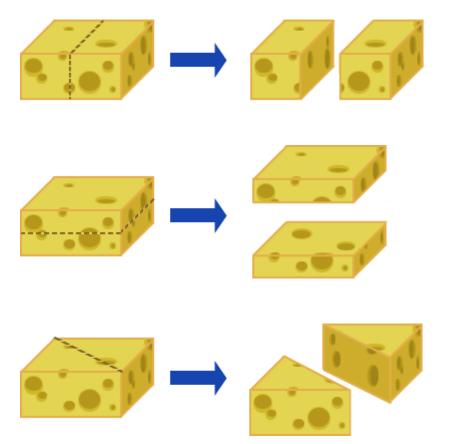


Question 5

These blocks of cheese are square prisms, each 6 cm by 6 cm by 3 cm.

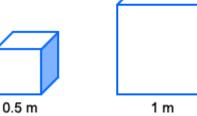


Each block is cut into two equal pieces as shown.



Question 6

Which of the following statements is true about these two cubes?



- a) The small cube's volume is $\frac{1}{2}$ the volume of the larger cube.
- b) The small cube's volume is $\frac{1}{4}$ the volume of the larger cube.
- c) The small cube's volume is $\frac{1}{8}$ the volume of the larger cube.
- d) The small cube's volume is $\frac{1}{10}$ the volume of the larger cube.

Zach ate one of each of the three different shaped pieces.

What volume of cheese did Zach eat?

cm³

Question 7

A cube has a volume of 64 mm³.

How long is each side?

mm

Question 8

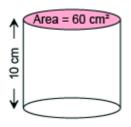
48 centimetre cubes fit exactly into a rectangular prism of length 6 cm and breadth 2 cm.

What is the height of the box?

cm

Question 9

This cylinder has a cross-sectional area of 60 cm² and A prism has a parallelogram with area 28 cm² on each a height of 10 cm.

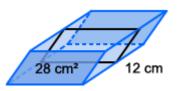


Calculate its volume.

	cm
	CIII

Question 10

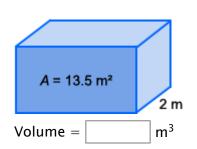
end and height 12 cm.



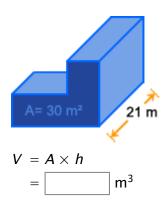
What is the volume?

Question 11

Find the volume of this rectangular prism with crosssectional area of 13.5 m² and length 2 m.

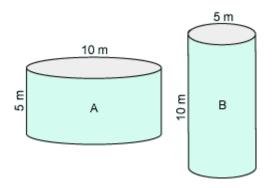


Question 12



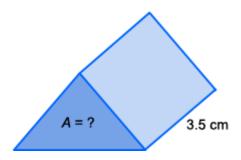
Question 13

Cylinder A has diameter 10 m and cylinder B's diameter is 5 m. Which cylinder has the greater volume?



- a) Cylinder A
- b) Cylinder B
- c) Neither, both cylinders have the same volume.

Question 14

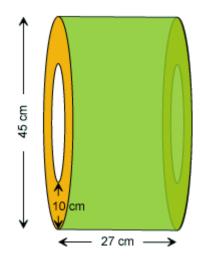


Volume = 70 cm^3

Area of base,
$$A = | cm^2 |$$

Question 15

Calculate the volume of this pipe in terms of π .



Volume =
$$\pi$$
 cm³

Question 16

What volume of concrete is needed to make this pipe?

Gove your answer correct to two deicmal places.

