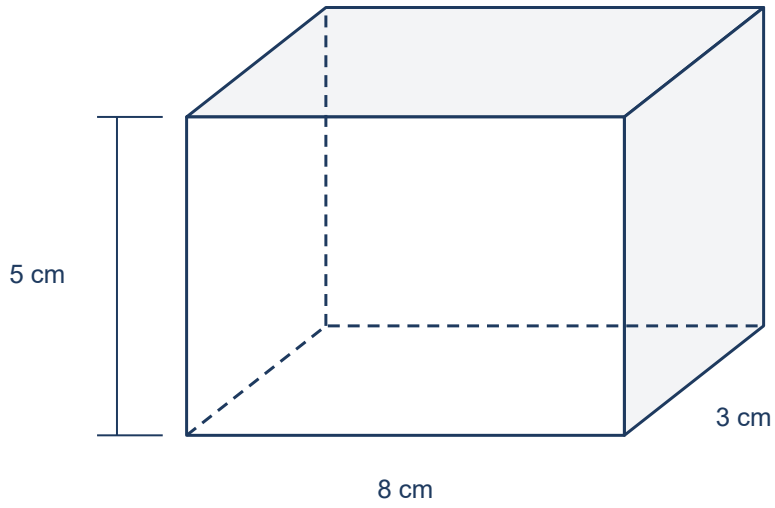
Volume of 3D shapes

9 marks
3 questions

Maths · GCSE · Edexcel · Year 10 · 21 October 2026

STUDENT NAME	DATE	SCORE
		/ 9

1. A cuboid has length $8\ \text{cm}$, width $3\ \text{cm}$ and height $5\ \text{cm}$.



Not to scale

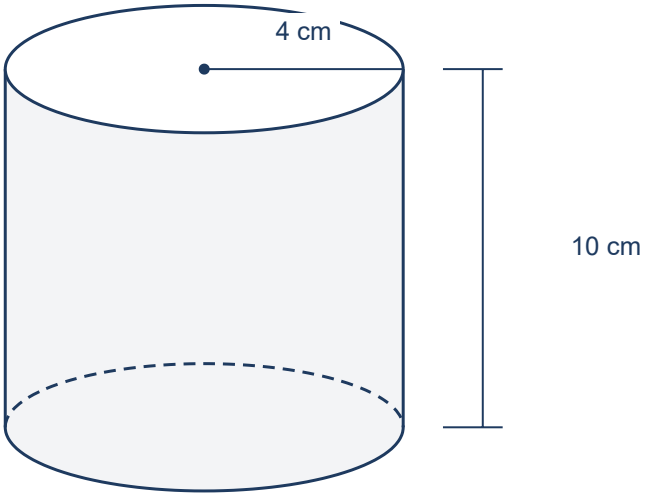
(a) Calculate the volume of the cuboid. [2 marks]

Answer .....

(b) Convert your answer to part (a) into mm^3. [1 mark]

Total for question 1: 3 marks

2. A cylinder has radius 4 cm and height 10 cm.



Not to scale

(a) Calculate the volume of the cylinder. Give your answer to 1 decimal place.

[2 marks]

Answer .....

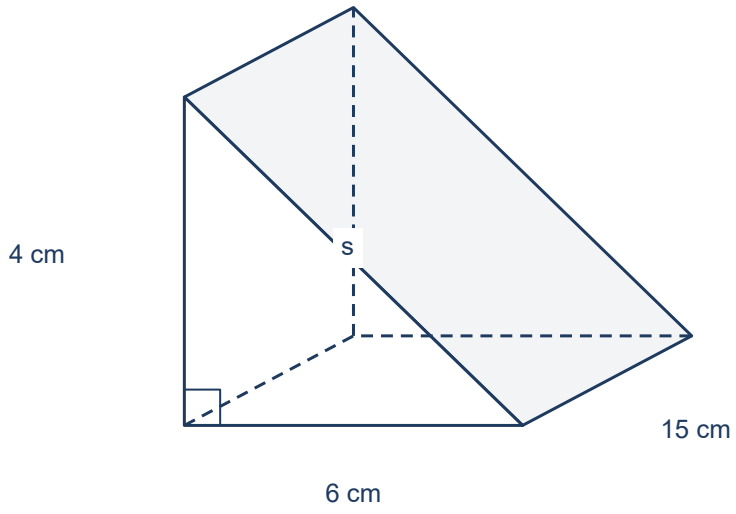
(b) Work out the capacity of the cylinder in litres. Give your answer to 2 decimal places.

[1 mark]

Answer .....

Total for question 2: 3 marks

3. A right triangular prism has a triangular cross-section with base $6\ \text{cm}$ and height $4\ \text{cm}$. The length of the prism is $15\ \text{cm}$. Calculate the volume of the prism. Give your answer as an integer in cm^3. [3 marks]



Not to scale

Answer .....

Mark Scheme

Maths — Volume of 3D shapes (GCSE Year 10)

TUTOR COPY

Total: 9 marks

Q1 — Total: 3 marks

(a)	$8 \times 3 \times 5$	[1]
	120 cm^3	[1]
(b)	120000 mm^3	[1]

Q2 — Total: 3 marks

(a)	$\pi \times 4^2 \times 10$	[1]
	502.7 cm^3	[1]
(b)	0.50 litres	[1]

Q3 — Total: 3 marks

	$\frac{1}{2} \times 6 \times 4$	[1]
	Area $= 12 \text{ cm}^2$, multiplied by 15	[1]
	180 cm^3	[1]