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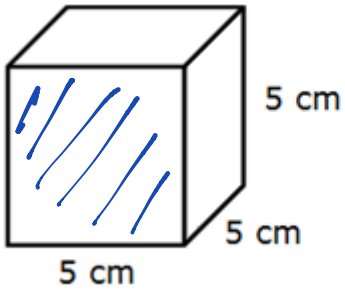

diagram not drawn to scale

1 FACE

5x5=25

Work out the total surface area of the cube.

But there are 6 faces

6x25

$= 150 cm^2$

(3)

Make sure you know what formula you are given in the exam pape

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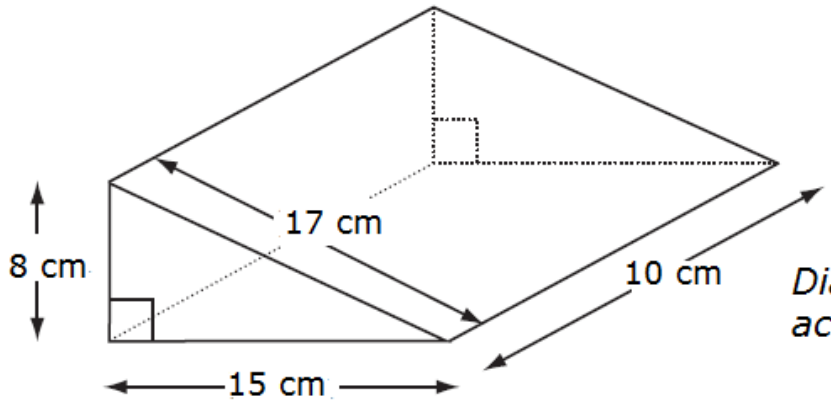

Diagram not accurately drawn

Work out the **total** surface area of the triangular prism.

(4)

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A triangular prism has dimensions as shown in the diagram.

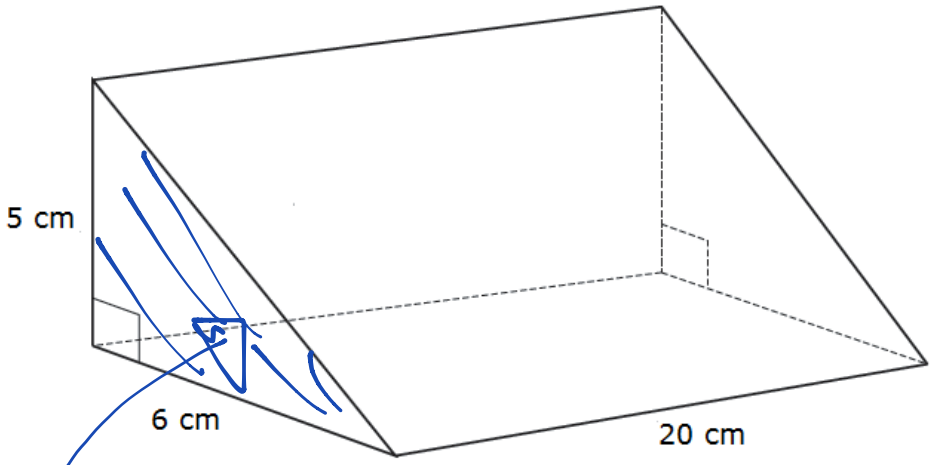
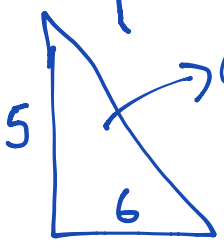


diagram not drawn to scale

Work out the volume of the prism.



area of this triangle

$= \frac{5 \times 6}{2} = \frac{30}{2} = 15 \text{ cm}^2$

(3)

Volume $= 15 \times 20$

$= 300 \text{ cm}^3$

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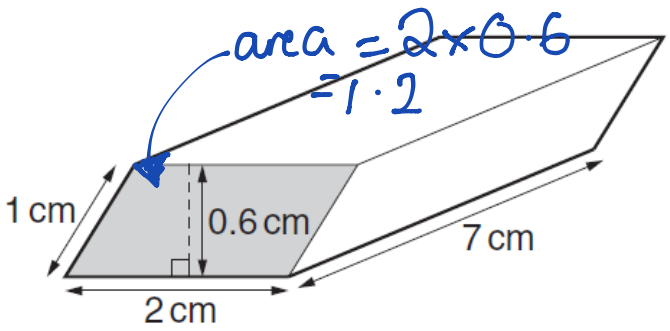
An eraser is a prism with a parallelogram as its cross section.



Work out the volume of the eraser. Give the units of your answer.

$1.2 \times 7 = 8.4 \text{ cm}^3$

(3)

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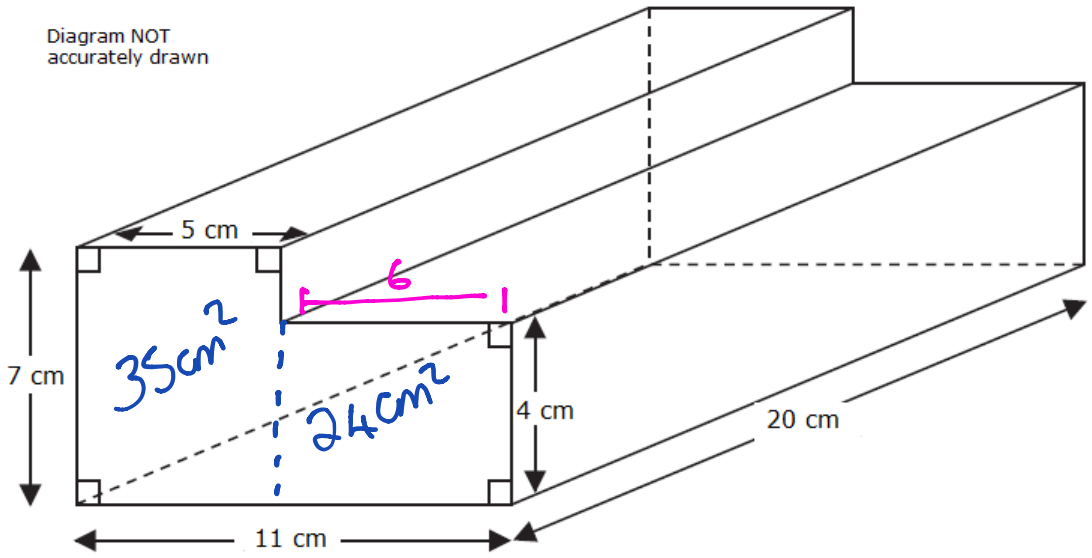
Here is a solid prism.



Work out the volume of the prism.

$35+24=59\text{cm}^2$

$59\times 20=1180\text{cm}^3$

1180 cm^3

(3)

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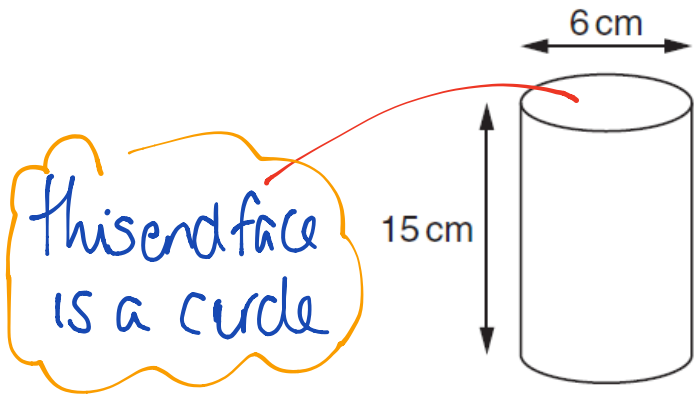
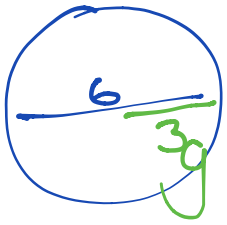
A drinking glass is a cylinder. The interior dimensions of the glass are as shown.



Work out the volume of liquid needed to fill the glass.



$A = \pi r^2$

we are given $r = 3$

$= \pi \times 3^2$

$= 28.27433388$

$\times 15$

$= 424.1150085 \text{ cm}^3$

no accuracy is given so I'm going to round to 2 decimal places... BUT. will state this too!

424.12 cm³ (3)
(2 decimal places).

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