

AQA, OCR, Edexcel

GCSE

GCSE Maths

Area and Volume Answers

Name:

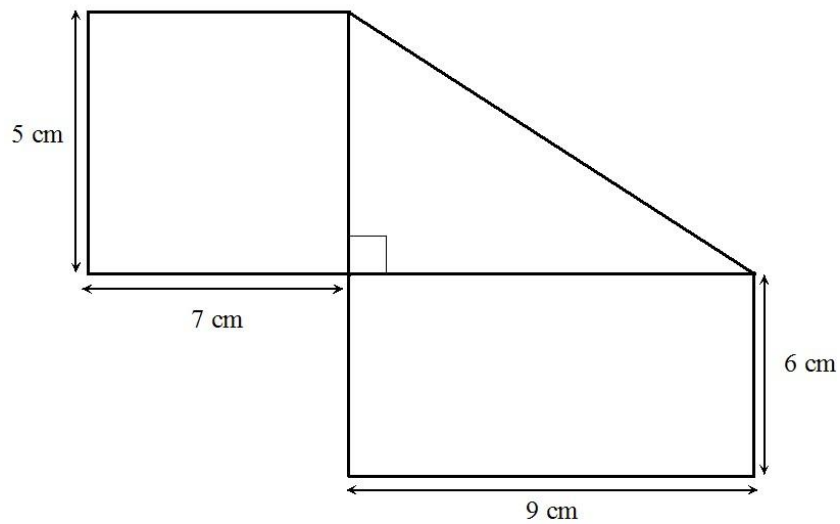
M M E

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Total Marks: /29

Area and Volume

1. The diagram shows the plan to a floor



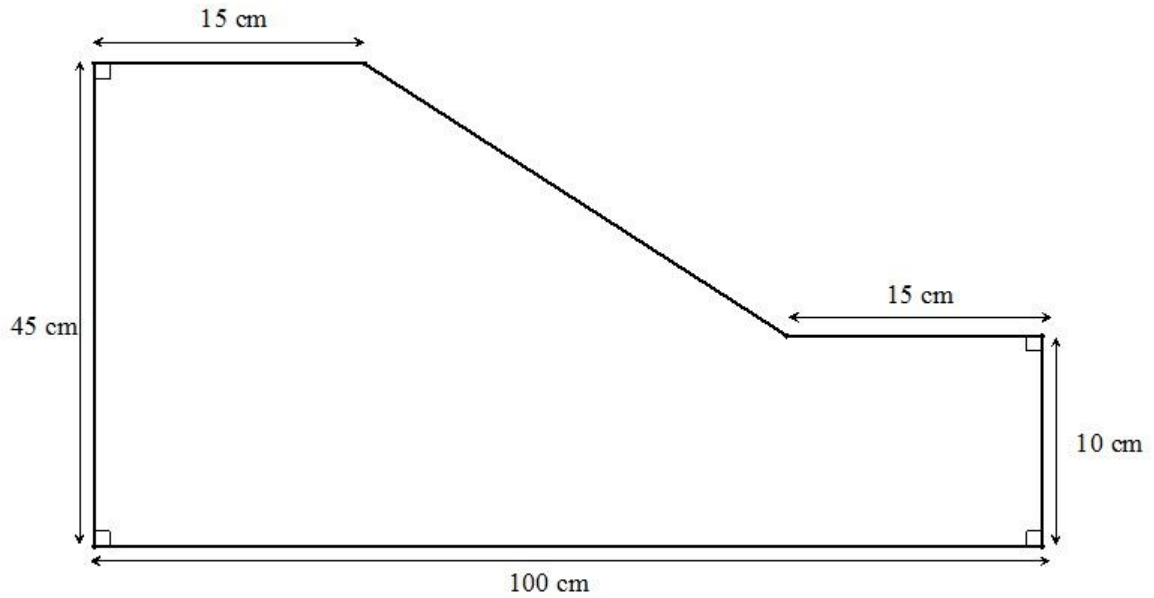
Calculate the total area of the floor.

(3 Mark)

- 111.5cm²

2. The diagram shows the floor plan to a warehouse which stores lamps.

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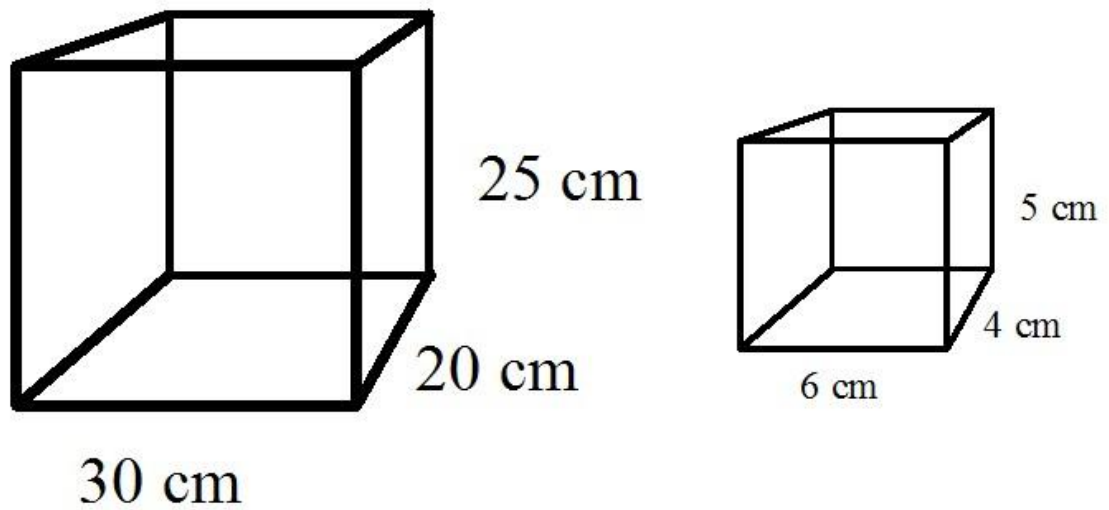


The owner of the warehouse has just ordered 14 lamps, each lamp needs at least 200cm^2 of room, is there enough room in the warehouse for all the lamps. You **MUST** show your working.

(5 Marks)

- 2900cm^2
- $14 \times 200 = 2800\text{cm}^2$
- No

3. The diagram below shows two boxes.



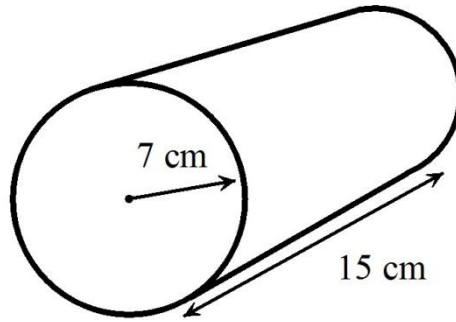
Pete says that 125 of the smaller boxes will fit in the larger box, is Pete right? You MUST show your working.

(5 Marks)

- Small box Volume = 120cm^3
- Large Box Volume = 15000cm^3
- $15000/120= 125$
- Yes he is right

4. The diagram shows a tube.

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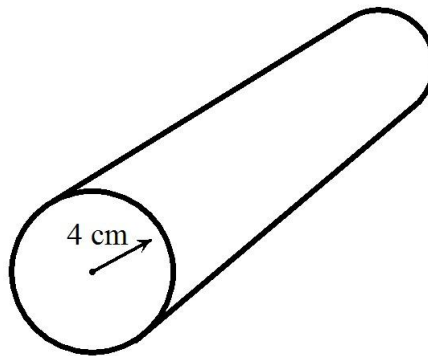


Calculate the Volume of the tube.

(2 Marks)

- 2309.1 cm³

5. The Diagram shows a tube of volume 112 cm³.



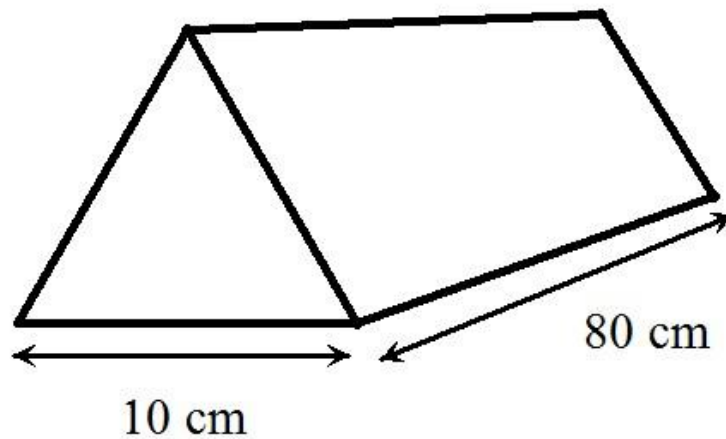
Calculate the height of the tube

(3 Marks)

- 2.23cm³

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6. The diagram shows a triangular prism of volume 4800cm^3

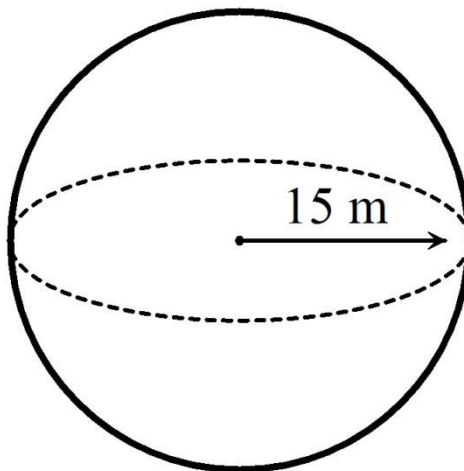


Calculate the vertical height of the triangular prism.

(3 Marks)

- Height = 6cm

7. The diagram shows a sphere.



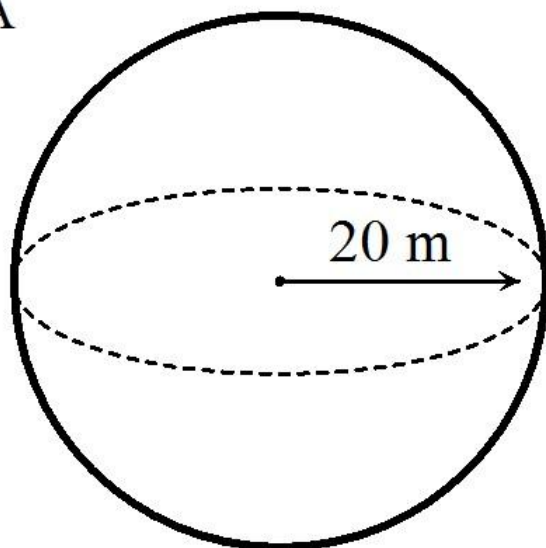
Calculate the volume of the sphere.

(2 Marks)

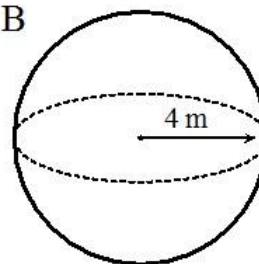
- 14137.17cm^3

8. The diagram shows two spheres A and B.

A



B

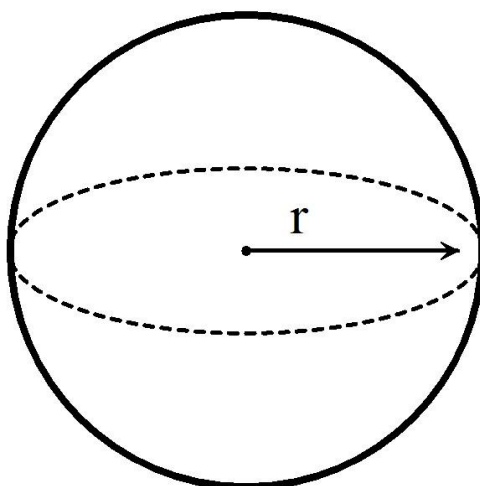


Use the diagram to calculate how many times sphere B, could fit into sphere A.

(3 Marks)

- Big Volume = 33510.32
- Small Volume = 268.08
- 125 times

9. The diagram shows a sphere of volume 2003 m^3 .



Calculate the radius of the sphere.

(3 Marks)

- 7.82 cm^3