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IGCSE A* MODEL ANSWER

0580 MATHEMATICS

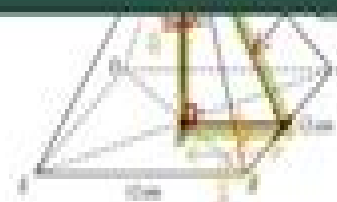
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Paper 42



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Model
Answer

The diagram shows a pyramid with a square base ABCD.
The diagonals AC and BD intersect at E and the height PE is drawn where
PE = 9 cm and DE = 6 cm.

(i) Calculate the volume of the pyramid.

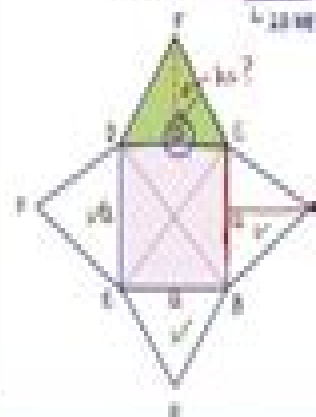
[The volume, V , of a pyramid with base area A and height h is given by
 $V = \frac{1}{3}Ah$.]

$$\begin{aligned} V &= \frac{1}{3} \times A \times h \\ &= \frac{1}{3} \times (12 \times 12) \times 9 \\ &= 432 \end{aligned}$$

432 cm³

(ii) Calculate the total surface area of the pyramid.

12 cm PE = 9 cm



$$\text{Area of square base} = 12^2 = 144 \text{ cm}^2$$

$$\begin{aligned} \text{Area of triangle} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 12 \times \sqrt{13} \\ &= (6\sqrt{13}) \text{ cm}^2 \\ &= 6\sqrt{13} \text{ cm}^2 \end{aligned}$$

609 cm²

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