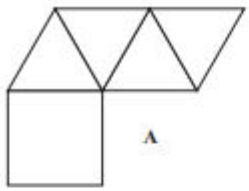
**SQUARE BASED PYRAMIDS**

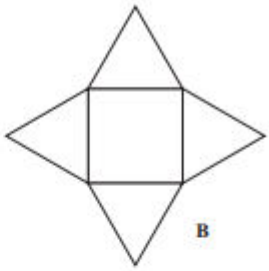
**Pearson Edexcel - Tuesday 9 November 2010 - Paper 3 (Non-Calculator) Higher Tier**

**1.**

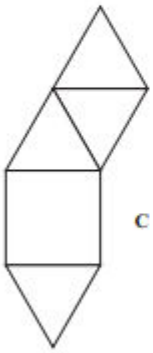
**15.** Here are 5 diagrams.



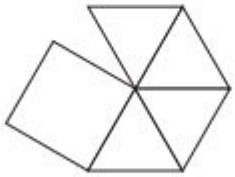
A



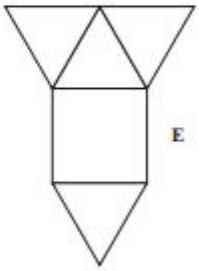
B



C



D



E

Two of these diagrams show a net for a square-based pyramid.

Write down the letter of each of these two diagrams.

..... and .....

**(Total 2 marks)**

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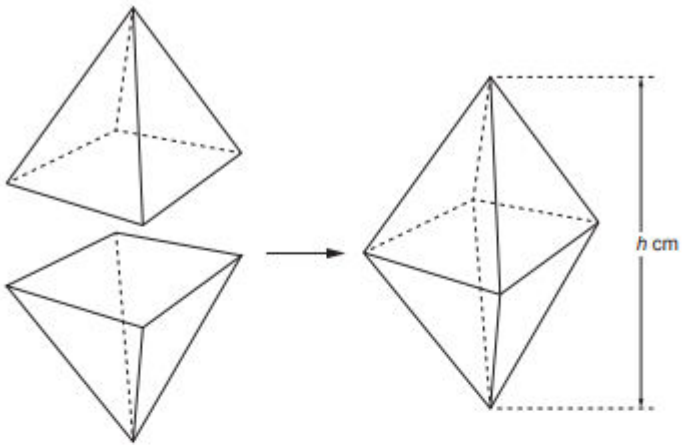
**OCR GSCE – Monday 11 November 2019 – Paper 6 (Calculator) Higher Tier**

**2.**

**8** An octahedron is formed from two identical square based pyramids.
The square bases are stuck together as shown.




The volume of the octahedron is $60\,cm^3$.
The length of the side of each pyramid's square base is 5 cm.

Work out the height $h$ cm of the **octahedron**.

[The volume of a pyramid is $\frac{1}{3} \times$ area of base $\times$ perpendicular height]

$h =$ ..... cm **[4]**

**AQA GSCE – Wednesday 8 November 2017 – Paper 3 (Calculator) Higher Tier**

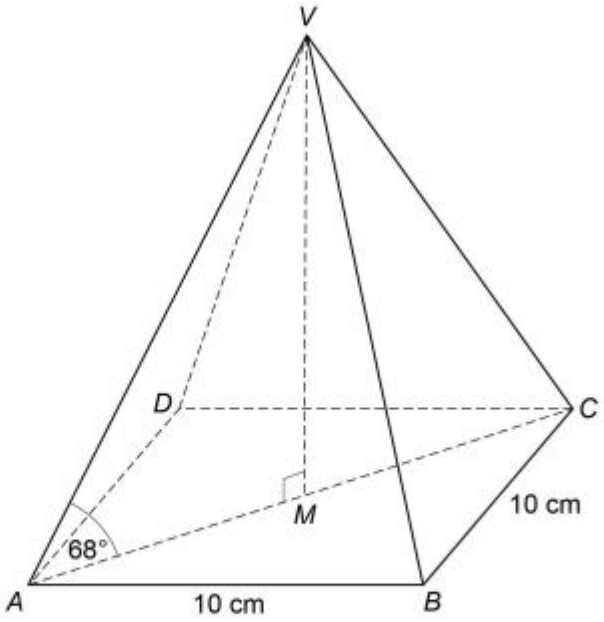
**3.**

**27** *VABCD* is a square-based pyramid.

The horizontal base *ABCD* has side length 10 cm and centre *M*.

Angle *VMA* is 90°

Angle *VAM* is 68°




Volume of pyramid = $\frac{1}{3}$ × area of base × perpendicular height

Work out the volume of the pyramid.

**[6 marks]**

Answer _____ $cm^3$