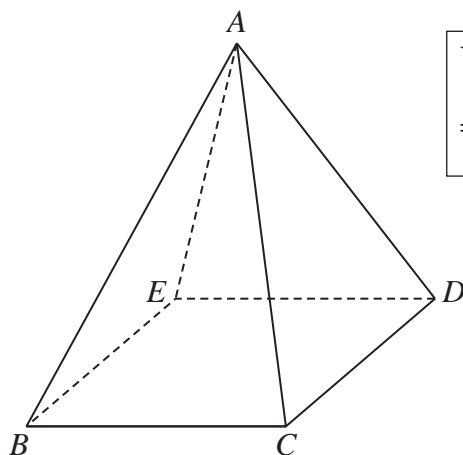


20 The diagram shows a solid pyramid  $ABCDE$  on horizontal ground.



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

The base  $BCDE$  of the pyramid is a square with sides of length 14 cm.  
The vertex  $A$  of the pyramid is vertically above the midpoint of  $BD$ .

The angle between  $AB$  and the base of the pyramid is  $68^\circ$

Calculate the volume of the pyramid.

Give your answer correct to 2 significant figures.

.....  $\text{cm}^3$

(Total for Question 20 is 4 marks)