

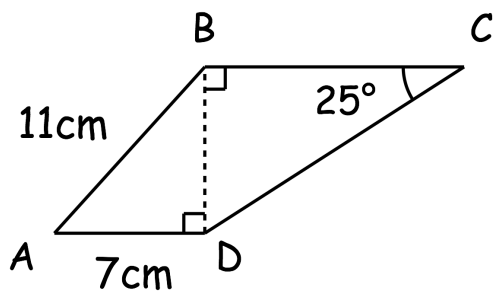


Make  $v$  the subject

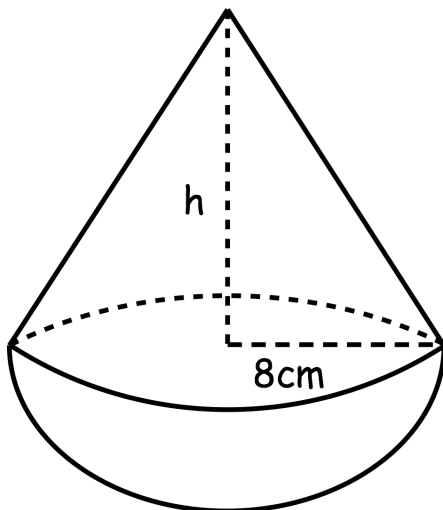
$$E = \frac{1}{2}mv^2$$

Simplify fully

$$\sqrt{5} \times \sqrt{15}$$



Find BC



The diagram shows a solid made up of a cone and a hemisphere.

The radius of the cone is 8cm.  
The height of the cone is  $h$ .

The volume of the solid is  $1850\text{cm}^3$

Find  $h$ .