# Volume of Square Based Pyramid

The volume of a square based pyramid can be found by using the formula

Volume = 
$$\frac{1}{3} \times \text{area of base} \times \text{height}$$
 or  $V = \frac{1}{3}bh$ 

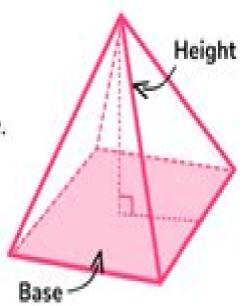
The height should always be perpendicular (90°) to the base.



Example Find the volume of a square based pyramid with height 6cm and base side length 4cm:

Volume = 
$$\frac{1}{3} \times 4 \times 4 \times 6 = \frac{1}{3} \times 96 = 32 \,\text{cm}^3$$

The base side length is 4cm, so the area of the base is 4 x 4, because the base is a square





### **Use Volume Formulas For Pyramids To Solve Problems**

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