

14th May



Corbettmaths

Tick the correct box

 $8^{-2}$ Greater than 0 Equal to 0 Less than 0 

$$\frac{1}{8^2} = \frac{1}{64}$$

Work out

$$\frac{\pi}{3} \times \frac{\pi}{2}$$

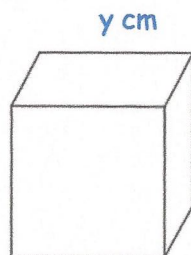
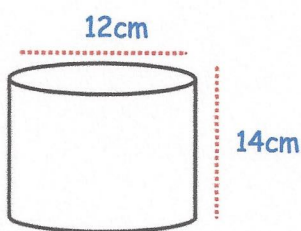
Give your answer in terms of  $\pi$ 

$$\frac{\pi^2}{6}$$

James says  $(a + b)^2 = a^2 + b^2$ 

Is he correct? No

$$\begin{aligned} (a+b)(a+b) &= a^2 + ab + ab + b^2 \\ &= a^2 + 2ab + b^2 \end{aligned}$$

Find  $y$ .

$$\begin{aligned} \text{Volume of cylinder} \\ 1583.362697\dots \end{aligned}$$

$$y^3 = 1583.362697\dots$$

$$y = 11.655 \text{ cm}$$

A cylinder has diameter 12cm and height 14cm.

A cube has side length  $y$  cm.

The cylinder and cube has the same volume.

$$\pi r^2 h$$

$$\pi \times 6^2 \times 14$$