

3rd February



Corbettmaths

Work out

$$1\frac{2}{5} + 2\frac{1}{2}$$

Give your answer as a mixed number.

$$\frac{7}{5} + \frac{5}{2}$$

$$\frac{14}{10} + \frac{25}{10} = \frac{39}{10} \quad 3\frac{9}{10}$$

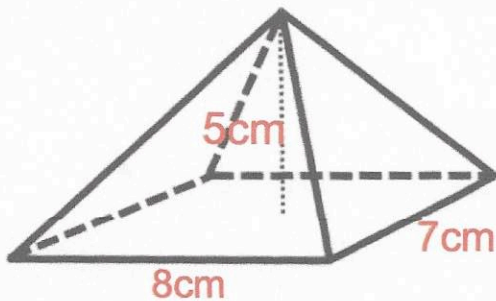
The angles in a triangle are in the ratio  
1 : 2 : 9

$$1 + 2 + 9 = 12$$

What is the size of the largest angle?

$$180 \div 12 = 15$$

$$15 \times 9 = 135^\circ$$



Calculate the volume of the pyramid

$$\frac{1}{3} (7 \times 8) \times 5$$

$$\frac{280}{3} \text{ or } 93.33 \text{ cm}^3$$

Expand and simplify

$$(3y - 2)(y + 3)$$

$$3y^2 + 9y - 2y - 6$$

$$3y^2 + 7y - 6$$

There are 20 students in class 1.  
There are 10 students in class 2.

Both classes sit the same test.

The mean mark in class 1 is 64%.  
The mean mark in class 2 is 80%

Work out the overall mean for both classes.

$$\begin{array}{r} 20 \times 64 = 1280 \\ 10 \times 80 = 800 \\ \hline 2080 \end{array}$$

$$2080 \div 30 = 69.33\%$$