

3rd February

Foundation Plus 5-a-day



Corbettmaths

Work out

$$2\frac{3}{8} - \frac{5}{6}$$

$$\begin{array}{r} 19 \\ \underline{8} \\ 57 \\ \underline{24} \\ 24 \end{array} - \begin{array}{r} 5 \\ \underline{6} \\ 20 \\ \underline{24} \\ 24 \end{array}$$

Give your answer as a mixed number.

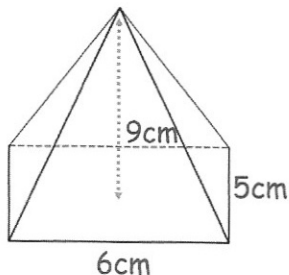
$$\frac{37}{24} = 1\frac{13}{24}$$

Expand and simplify

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

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

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



Calculate the volume of the pyramid

$$\frac{1}{3}(5 \times 6) \times 9$$

$$= \frac{1}{3}(30) \times 9$$

$$= 90 \text{ cm}^3$$

Shown is one interior angle from a regular polygon. $180 - 175 = 5$

Calculate how many sides the polygon has.

$$360 \div 5 = 72^\circ$$



175°

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 76%

Work out the overall mean for both classes.

$$20 \times 64 = 1280$$

$$10 \times 76 = 760$$

$$\begin{array}{r} + \\ 2040 \end{array}$$

$$2040 \div 30 = 68\%$$