

29th May



Corbettmaths

The base of a pyramid has  $n$  sides.

Write an expression for the number of vertices the pyramid has.

$$n + 1$$

Solve

$$\frac{4x+9}{15} - \frac{x-3}{5} = 1$$

$$\frac{4x+9}{15} - \frac{3x-9}{15} = 1$$

$$\frac{x+18}{15} = 1$$

$$x+18 = 15$$

$$x = -3$$

25 boys and 5 girls sit a class test.

The mean mark for the whole class is 82.

The mean mark for boys is 84.

Work out the mean mark for the girls

$$30 \times 82 = 2460$$

$$25 \times 84 = \underline{2100}$$

$$360 \div 5 = 72$$

Megan has drawn a picture with triangles and rectangles. Some shapes are red and the others are blue.

The ratio of red to blue shapes is 4:5

The ratio of red triangles to red rectangles is 1:3

The ratio of blue triangles to blue rectangles is 3:7

What fraction of all the shapes are triangles?

Red shapes    Blue shapes

$$8 : 10$$

$$\begin{array}{ccc} \swarrow & \downarrow & \downarrow \\ 2 : 6 & & 3 : 7 \\ R\Delta & R\Box & B\Delta : B\Box \end{array}$$

$$\frac{5}{18}$$