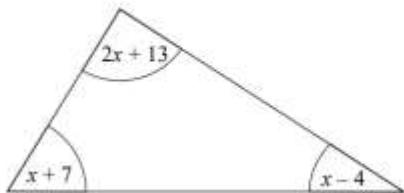


# Year 10 Foundation

**1** Work out 135% of 160

**2** Work out the value of  $x$ .



**3** Here are the first 5 terms of a sequence.

29    25    21    17    13

Find an expression, in terms of  $n$ , for the  $n$ th term of this sequence.

**4** In a bag there are only red counters, blue counters and white counters.

A counter is taken at random from the bag.

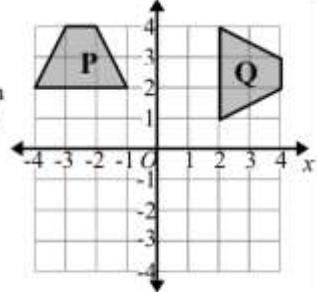
Colour	Red	Blue	White
Probability	0.42	0.3	

Find the probability that counter will be white.

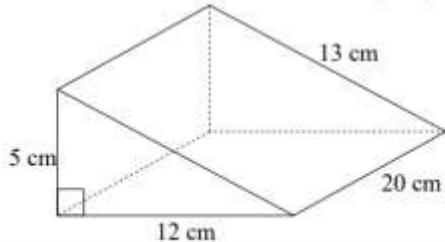
**5** Work out  $\frac{3}{4} - \frac{1}{5}$

**6**

Describe fully the single transformation that maps trapezium P on trapezium Q.



**7** Find the total surface area of the triangular prism.



**8** A map has the scale of 1:50000

The distance between two points on the map is 10 cm.

Work out the real distance between the two points. Give your answer in kilometres.

**9** Work out the size of each interior angle in a regular pentagon

**10** In April, it rained on  $\frac{3}{5}$  of days

Write the ratio of the days it rained to the number of days it did not rain.