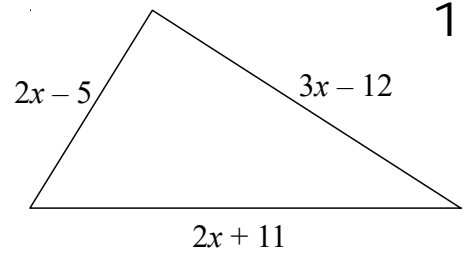


Foundation GCSE Mini Test 3

- 1** Increase £320 by 29%

412.8

- 2** The perimeter of the triangle is 120 cm.
Work out the value of x .



- 3** The n th term of a sequence is $n^2 + 15$
Find the first three terms of this sequence.

16, 19, 24

- 4** In a bag there are only red counters, blue counters and white counters.
The probability of getting a blue counter is the same as the probability of getting a white counter.

Colour	Red	Blue	White
Probability	0.18	0.41	0.41

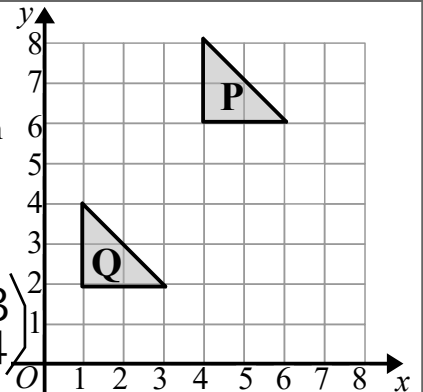
Find the probability that counter will be blue.

- 5** Work out $1\frac{2}{3} \div \frac{3}{5}$

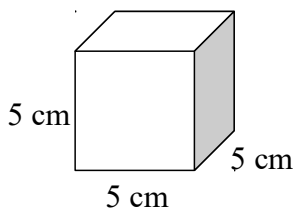
$\frac{25}{9}$ or $2\frac{7}{9}$

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

translation
by vector $\begin{pmatrix} -3 \\ -4 \end{pmatrix}$



- 7** Find the volume of the cube.



125cm³

- 8** A model plane has the length of 13 cm.
The scale of the model is 1:72
Work out the length of the real plane.
Give your answer in metres.

9.36 metres

- 9** The size of each interior angle in a regular polygon is 162°
Work out how many sides the polygon has.

20

- 10** The ratio of circles to squares is 2:5
Write down the fraction of shapes that are squares.

$\frac{5}{7}$

11 Find an estimate for the mean time.

Time (minutes)	Frequency
$15 < t \leq 17$	5
$17 < t \leq 19$	12
$19 < t \leq 21$	7
$21 < t \leq 23$	6

18.9mins

12

A circle has a radius of 23 centimetres.
Work out an estimate for the area of the circle.

$$400\pi \text{ cm}^2$$

13 Write down the reciprocal of 5

$$\frac{1}{5}$$

14 n is an integer such that $-3 \leq n < 2$

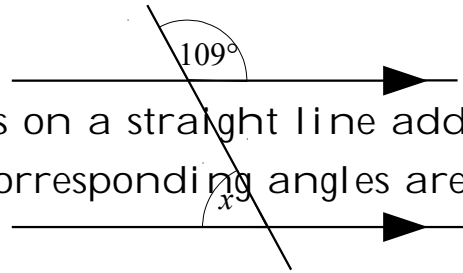
Write down all the possible values of n .

$$-3, -2, -1, 0, 1$$

15 A circle has a diameter of 17 cm.
Work out the area of the circle.
Give your answer correct to 2 decimal places.

$$226.98\text{cm}^2$$

16



Angles on a straight line add to 180°
and corresponding angles are equal

Write down the size of angle x .
Give a reason for your answer.

$$61^\circ$$

17 Find the highest common factor (HCF)
of 60 and 105

$$420$$

18 Karen buys a pack of 6 bottles of water.
The pack costs £1.20

Karen sells all 6 bottles of water for 35p each.

Work out Karen's percentage profit.

$$75\%$$

19

A pair of trainers cost 3500 rupees in India.
The exchange rate is £1 = 98 rupees.
Work out the cost of the trainers in pounds (£).

$$£35.71$$

20

Jerry and Mick share some money in the ratio 2 : 3
Mick gets £600

Work out how much money Jerry gets.

$$£900$$