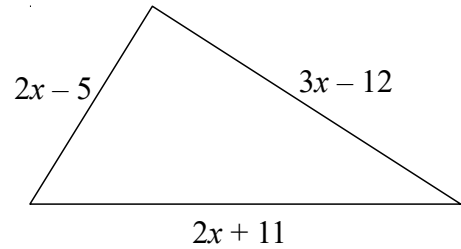


Foundation GCSE Mini Test 3

1 Increase £320 by 29%

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.

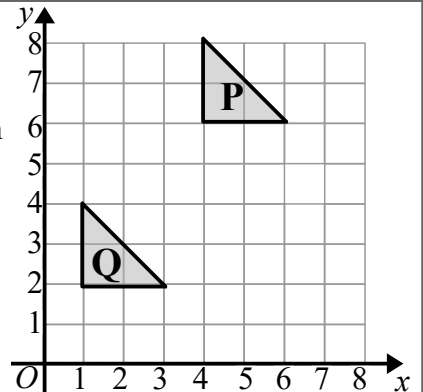
4 In a bag there are only red counters, blue counters and white counters.
The probability of getting a blue counter is the same as the probability of getting a white counter.

Colour	Red	Blue	White
Probability	0.18		

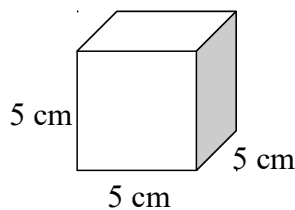
Find the probability that counter will be blue.

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

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



7 Find the volume of the cube.



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

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

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

12

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

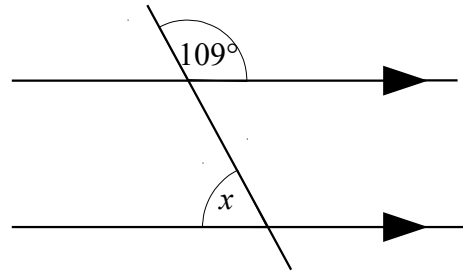
13 Write down the reciprocal of 5

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

Write down all the possible values of n .

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

16



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

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

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.

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 (£).

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

Work out how much money Jerry gets.