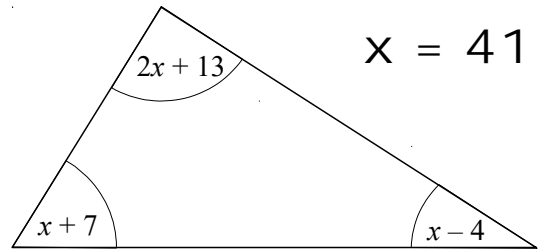


Foundation GCSE Mini Test 1

1 Work out 135% of 160

216

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.

$33 - 4n$

4 In a bag there are only red counters, blue counters and white counters.
A counter is taken at random from the bag.

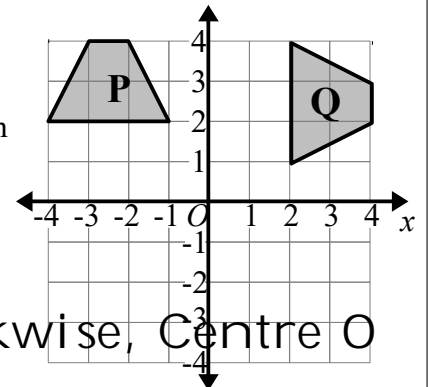
Colour	Red	Blue	White
Probability	0.42	0.3	0.28

Find the probability that counter will be white.

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

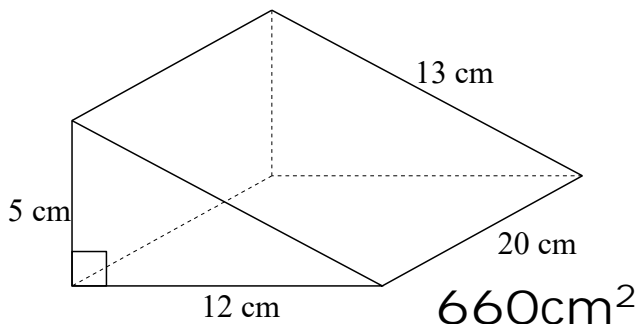
$\frac{11}{20}$

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



Rotation,
 90° Clockwise, Centre O

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.

5km

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

108°

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.

3:2

11 Find an estimate for the mean height.

Height (cm)	Frequency
$140 < h \leq 150$	5
$150 < h \leq 160$	8
$160 < h \leq 170$	10
$170 < h \leq 180$	2

158.6cm

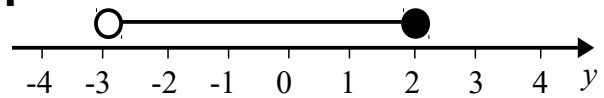
12 Mr Sykes wants to buy a calculator for every student in year 11.
There are 113 students in year 11.
Each calculator costs £8.95

Work out an estimate for the amount of money Mr Sykes will spend on calculators.
£900 or £990 or £1000
or £1100

13 Write down the value of 5^0

1

14



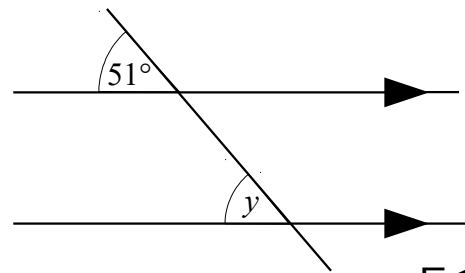
Write down the inequality shown on the number line.

$$-3 < y \leq 2$$

15 A circle has a radius of 9 cm.
Work out the area of the circle.
Give your answer in terms of π .

$$81\pi \text{ cm}^2$$

16



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

corresponding angles are equal

17 Find the highest common factor (HCF) of 72 and 120

24

18 Emma buys a house for £250 000
She sells the house for £263 750

Calculate the percentage profit Emma makes.

5.5%

19 Beth goes on holiday to Spain.
The exchange rate is £1 = €1.12
She changes £350 into Euros (€).
Work out how many Euros she receives.

€392

20 Molly, Paige and Demi share 42 sweets in the ratio 4 : 2 : 1

Work out the number of sweets that each of them receives.

24 : 12 : 6