

Top Ten

Name:

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Foundation GCSE Green - Set 1 Paper 1

	Q	Topic	My Mark	Max Marks
Non Calculator	1	Money calculations		6
	2	Calculating with fractions		5
	3	Percentages		7
	4	Ratio		5
	5	Algebraic manipulation		6
Calculator	6	Area and perimeter		4
	7	Angle facts		4
	8	Averages from lists		5
	9	Bar charts		5
	10	Probability		3
				50



Question 1 – Money calculations

Calculate the following, giving your answers in pounds £.

(a) £2.30 + 85p

£.....
[1]

(b) £5 - £1.37

£.....
[1]

(c) £2.35 + £1.80 + 95p

£.....
[1]

(d) Joe bought a box of cards for £6.80
He paid with a £10 note.
How much change should Joe get?

£.....
[1]

Question 2 – Calculating with fractions

Work out:

a) $\frac{3}{7} + \frac{2}{7}$

.....
[1]

(b) $1 - \frac{1}{5}$

.....
[1]

(c) $\frac{1}{4} \times \frac{3}{8}$

.....
[1]

(d) $\frac{4}{9} \div \frac{3}{5}$

.....
[2]

Question 3 – Percentages

(a) Find:

i. 50% of 1200

.....
[1]

ii. 25% of 1200

.....
[1]

iii. 10% of 1200

.....
[1]

iii. 5% of 1200

.....
[1]

iii. 1% of 1200

.....
[1]

(b) Hence or otherwise, find 45% of 1200.

.....
[2]

Question 4 – Ratio

(a) Simplify fully 18 : 30

.....
[2]

(b) Work out the value of a :

$$4 : 7 = 24 : a$$

$a =$
[1]

(c) There are 1200 passengers on the ship and 900 crew on a ship.

Write down the ratio of the number of passengers to the number of crew.
Give your ratio in its simplest form.

.....
[2]

Question 5 - Algebraic manipulation

(a) Simplify:

i. $6b - b + 8b$

.....
[1]

ii. $f \times f \times f \times f \times f$

.....
[1]

iii. $6j + 2k + j + 3k$

.....
[2]

(b) Work out the value of $6x + 3$ when $x = 7$

.....
[1]

(c) Solve:

$$x - 5 = 23$$

$x =$
[1]

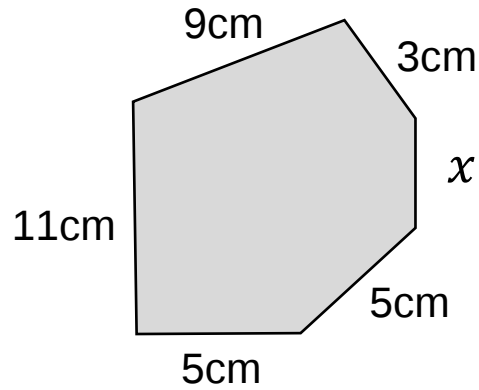


Calculator

Question 6 – Area and perimeter

(a) Below is a hexagon with a perimeter of 36cm.

not to scale

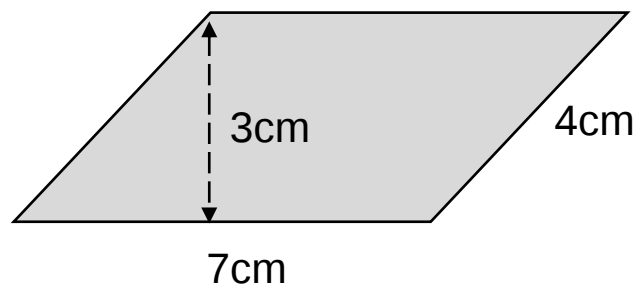


Calculate the length of the side marked x .

.....cm
[2]

(b) Below is a parallelogram.

not to scale



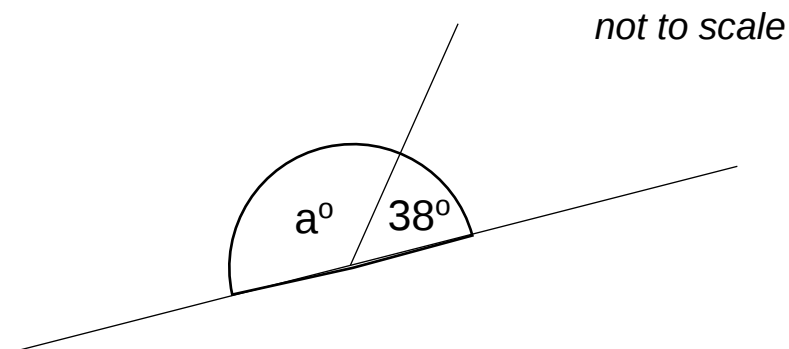
Calculate its area.

.....cm²
[2]

Question 7 – Angle facts

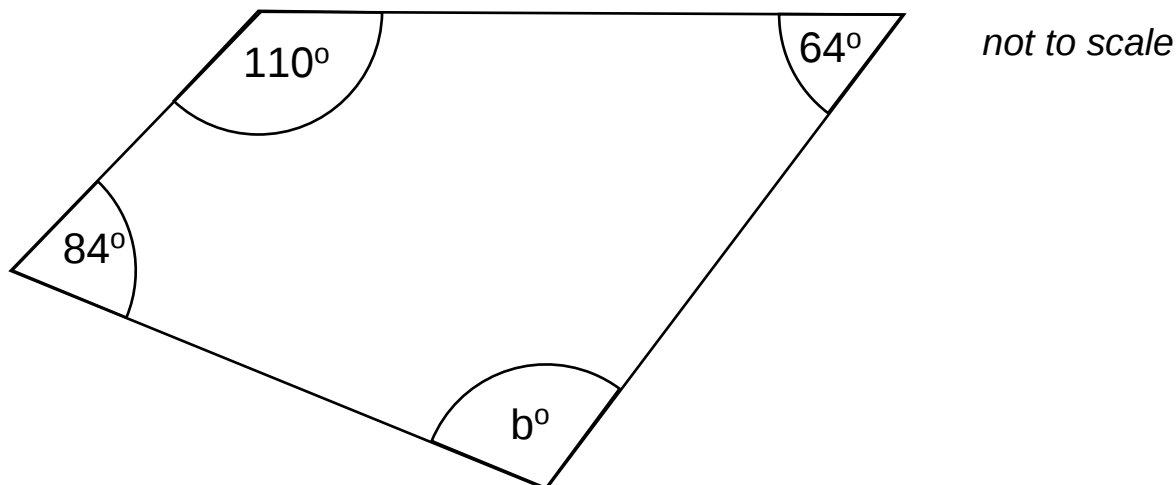
In the diagrams below, find the size of the missing angle.

(a)



$a = \dots\dots\dots^\circ$ [2]

(b)



$b = \dots\dots\dots^\circ$ [2]

Question 8 – Averages from lists

Here is a list of 9 numbers

1 2 2 4 6 6 6 7 11

(a) Work out the range

.....
[1]

(b) Write down the mode

.....
[1]

(c) Work out the median

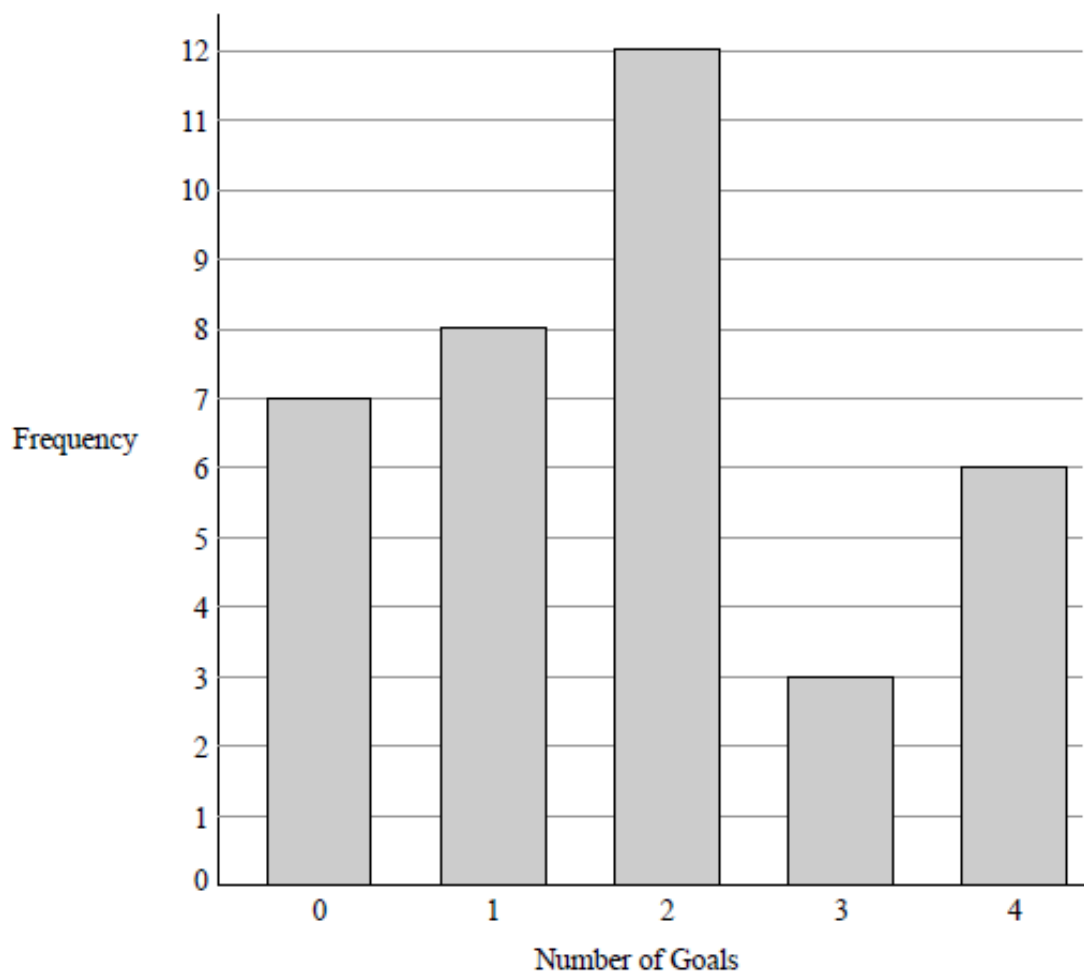
.....
[1]

(d) Calculate the mean

.....
[2]

Question 9 – Bar charts

Here is a bar chart showing the number of goals scored in a game by a football team in a season.



(a) What is the modal number of goals scored by the team?

.....
[1]

(b) In how many more games did they score 4 goals than 3 goals?

.....
[2]

(c) How many games were played altogether?

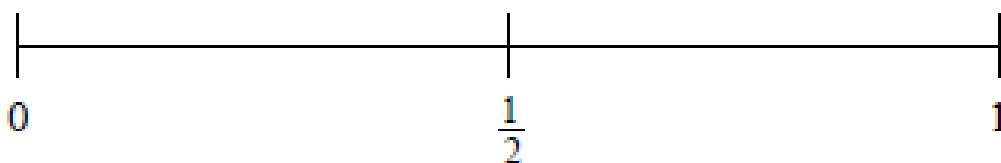
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[2]

Question 10 – Probability

There are 8 marbles in a bag.
4 marbles are red.
3 marbles are blue.
1 marble is green.

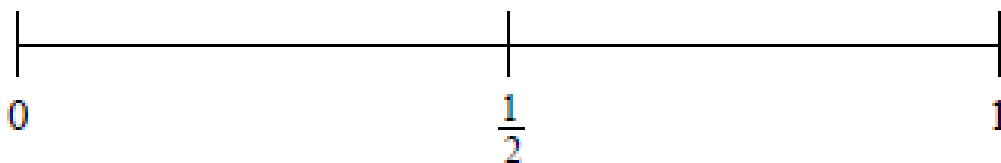
On marble is selected at random from the bag.

- (a) On the probability scale mark with a cross (X) the probability that the marble is red.



[1]

- (b) On the probability scale mark with a cross (X) the probability that the marble is yellow.



[1]

- (c) Write down the probability that the marble is blue.

.....
[1]