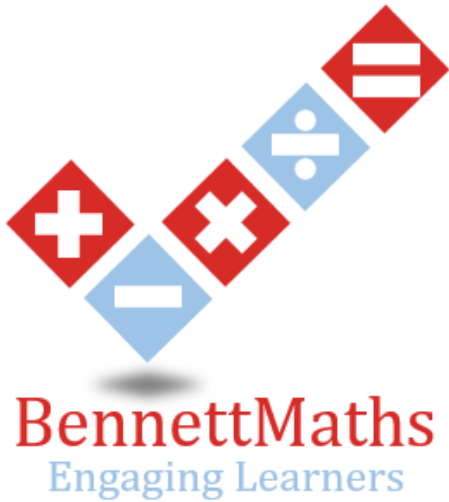


***BennettMaths will be live on TikTok the night before paper 1,
going through all the predicted papers.***

Wednesday 13th May at 8pm

Candidate surname

Other names



AQA

**Best Guess Paper –
1F
Non-Calculator**

Within this booklet you will find my best guess at which topics might be on the first AQA foundation gcse maths paper.

There may be other topics that appear on paper 1, so please ensure that you continue to revise all topics.

The paper consists of 28 questions totalling 80 marks.

1 Simplify 12:14

[1 mark]

Answer _____

2 Convert 34% into a decimal

[1 mark]

Answer _____

3 List the factors of 10

[1 mark]

Answer _____

4 Simplify $5a + a - 2a$

[1 mark]

Answer _____

- 5** Sam's dog eats 2 tins of food per day.
Each tin of food costs £2.50.

Work out the total cost to buy a week's worth of dog food.

[3 marks]

Answer _____

- 6** A movie starts at 2:30pm. It ends 95 minutes later.
Work out the time that the movie ends.

[2 marks]

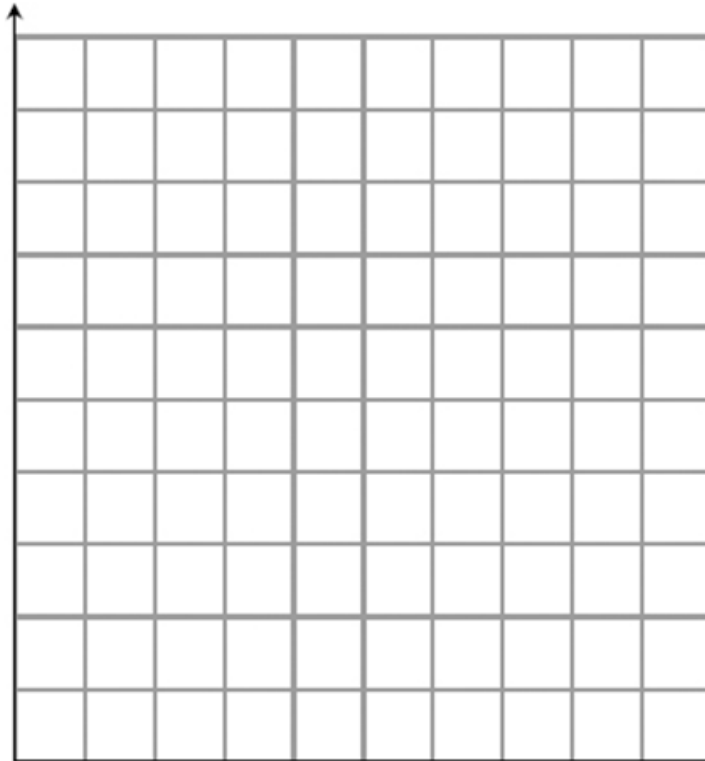
Answer _____

7 This table shows what 20 students do for lunch.

[4 marks]

Sandwiches	School dinner	Go home
7	5	8

Draw a bar chart to show this information.



8

10

2

19

Four cards have a number written on them. One of the cards is turned over.
The mean average of the four numbers is 7.5.

Write down the number that is on the final card.

[3 marks]

Answer _____

9 (a) Expand $3(2x - 4)$

[1 mark]

Answer _____

(b) Factorise fully $12x + 40y$

[1 mark]

Answer _____

(c) Simplify $(a^3)^5$

[1 mark]

Answer _____

(d) Simplify $x^2 \times x^3$

[1 mark]

Answer _____

(e) Solve $5(x + 8) = -11x$

[3 marks]

Answer _____

- 10** There are red, blue and green counters in a bag.
The probability of selecting a red or blue counter is shown in the probability table.

Red	Blue	Green
0.4	0.25	

- (a) Complete the probability table to show the probability of selecting a green counter. **[1 mark]**

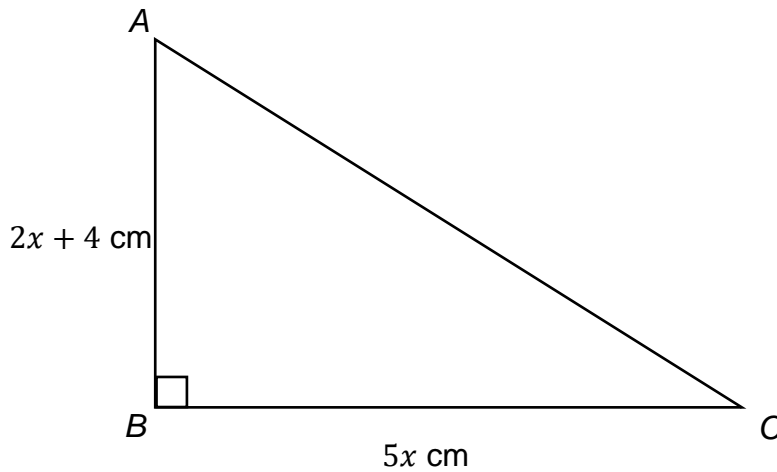
- (b) Write down the fraction of the counters that are Blue.
Give your answer in its simplest form. **[2 marks]**

Answer _____

- 11** Work out 30% of 186 **[2 marks]**

Answer _____

- 12** ABC is a right-angled triangle.
 $AB = 2x + 4$ cm
 $BC = 5x$ cm



- (a) Work out the area of the triangle.
Giving your answer in the form $ax^2 + bx$ cm². Where a and b are integers

[3 marks]

Answer _____

- (b) The area of another shape is $4x^2 + 6x$.
If the value of x is 3.
Work out the value of the area of this shape.

[2 marks]

Answer _____

13 Convert 12mm^2 into cm^2

[2 marks]

Answer _____

14 Leo and Margot share some money in the ratio 7:2.
Leo receives £35 more than Margot.

[3 marks]

Work out how much money Margot receives

Answer _____

15

[3 marks]

$$P = \frac{\sqrt{98} + 4.5^2}{0.48}$$

By rounding each number to one significant figure, work out the value of P

Answer _____

16 It takes 5 workers 6 days to complete a project.

[2 marks]

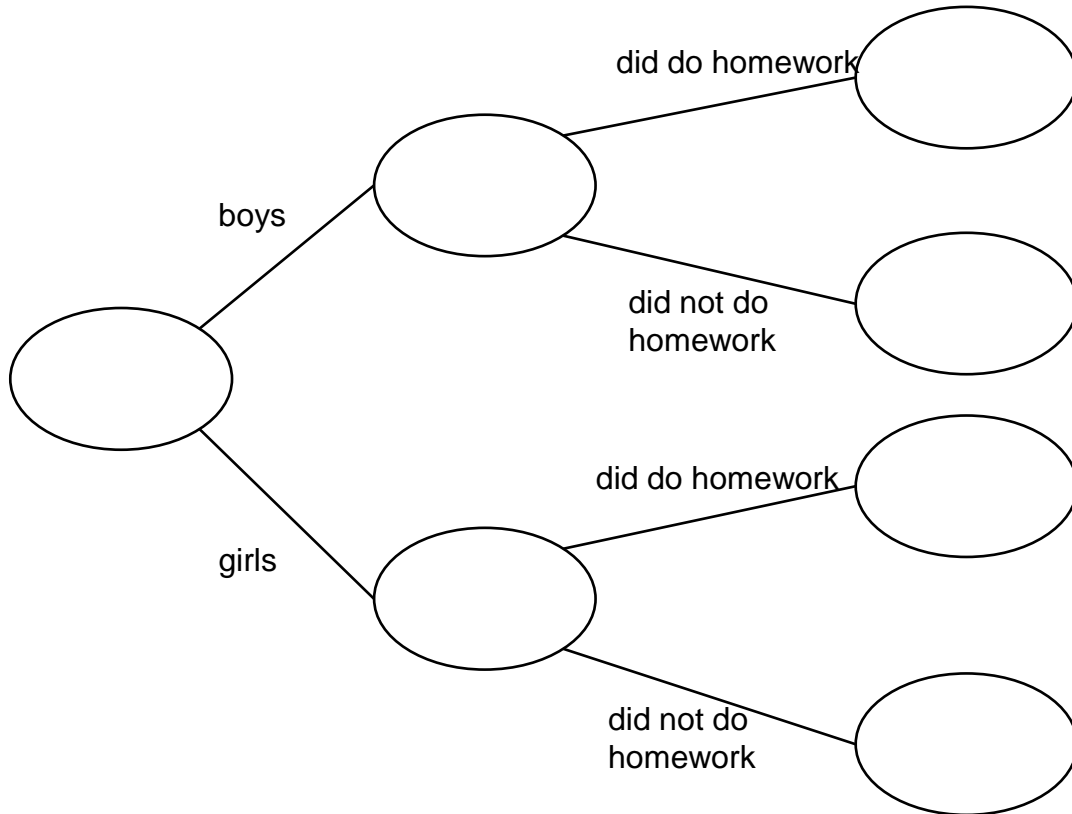
Assuming all workers complete the work at the same rate.
Work out how long it would take 2 workers to complete the project.

Answer _____

- 17** 360 students have some homework.
150 of the students were boys.
12 of the 49 students that did not do their homework were girls.

(a) Use this information to complete the frequency tree.

[3 marks]



- (b) One of the girls is chosen at random.
Write down the probability that they did do their homework

[2 marks]

Answer _____

18

Make x the subject of

$$3x + y = ax$$

[3 marks]

Answer _____

- 19** The first number in a linear sequence is 4.
The third number in the sequence is 10.

Write down an expression, in terms of n , for the n th term of this sequence. **[3 marks]**

Answer _____

20

(a) Circle the inequality represented by the diagram.

[1 mark]



$1 < x < 6$

$1 \leq x < 6$

$1 \leq x \leq 6$

$1 < x \leq 6$

(b) Circle the list of **all** the integers that satisfy $-1 < x \leq 5$

[1 mark]

$-1, 0, 1, 2, 3, 4, 5$

$-1, 0, 1, 2, 3, 4$

$0, 1, 2, 3, 4$

$0, 1, 2, 3, 4, 5$

21 Express $5^4 \div 5^{-2} \times 25$ in the form 5^n

[2 marks]

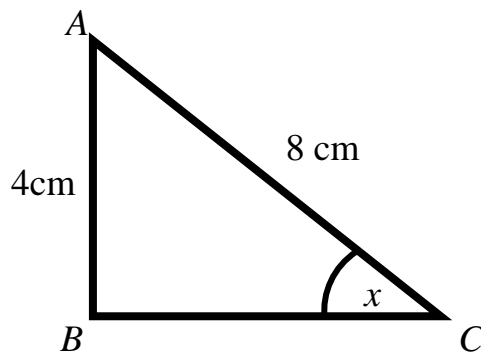
Answer _____

22

Triangle ABC is shown below.

AB = 4cm

AC = 8cm



Work out the size of angle x

[3 marks]

Answer _____

- 23** A number, n , is rounded to 2 significant figures.
The result is 26.
Complete the error interval for n

[2 marks]

$$\dots \leq n < \dots$$

- 24** ABCD is a rectangle.

$$3\frac{3}{4} \text{ cm}$$

$$1\frac{3}{8} \text{ cm}$$



- (a) Work out the perimeter of ABCD

[3 marks]

Answer _____

- (b) Work out the area of ABCD

[2 marks]

Answer _____

25 Margot takes part in a 5 km fun run.

During the first 3 km she runs at an average speed of 6 km/h.

She is aiming to complete the race in under 54 minutes.

Work out the average speed that she needs to maintain to finish in under 54 minutes.

[4 marks]

Answer _____

26 Solve

$$3x - 4 = 5x + 7$$

[3 marks]

Answer _____

27 Work out

$$800 \times (2 \times 10^2)$$

[3 marks]

Answer _____

28 Sketch the graph

$$y = x^2 - 4$$

[2 marks]

