GCSE Mathematics
Paper 1 (Non-Calculator)
Foundation Tier

Paper Reference: **GFP1.1**

Time: 1 hour 30 minutes
Total Marks: 80

This is a practice paper containing exam-style questions designed to support student preparation. It is not an official past paper or publication from any examination board.

Answer ALL questions.

1. Work out $15 + 27$

.....

(Total for Question 1 is 1 mark)

2. Write down the value of 4^2

.....

(Total for Question 2 is 1 mark)

3. Work out $\frac{3}{8}$ of 40

.....

(Total for Question 3 is 1 mark)

4. Here is a list of numbers:

3.2 3.02 3.21 3.12 3.1

Write down the largest number.

.....

(Total for Question 4 is 1 mark)

5. Simplify $5 \times a \times 3$

.....

(Total for Question 5 is 1 mark)

6. There are 2.5 litres of juice in a bottle. Maya drinks 400 millilitres of the juice.
Work out how much juice is left in the bottle. Give your answer in millilitres.

..... millilitres

(Total for Question 6 is 3 marks)

7. Ben has these coins:

50p 20p 20p 10p 5p 2p 1p

(a) Write down the total value of Ben's coins.

.....

(1)

(b) Ben buys a chocolate bar for 85p. Write down the least number of coins Ben could use.

.....

(2)

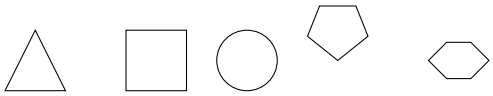
(Total for Question 7 is 3 marks)

8. Work out $180 \div 12$

.....

(Total for Question 8 is 2 marks)

9. Here are some shapes:



A B C D E

(a) Write down the letter of the shape that has 5 sides.

.....

(1)

(b) Write down the letter of the shape that has 4 equal sides and 4 right angles.

.....

(1)

(Total for Question 9 is 2 marks)

10. A shop sells packets of biscuits for £1.25 each. Sarah buys 4 packets of biscuits. She pays with a £10 note.

How much change should Sarah receive?

£.....

(Total for Question 10 is 3 marks)

11. Here is a frequency table showing the number of pets owned by students in a class.

Number of pets	Frequency
0	8
1	12
2	6
3	3
4	1

(a) How many students are in the class?

.....

(1)

(b) Write down the mode.

.....

(1)

(c) Work out the range.

.....

(1)

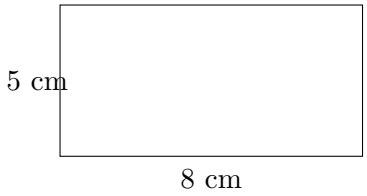
(Total for Question 11 is 3 marks)

12. Solve $x + 7 = 15$

$x =$ .....

(Total for Question 12 is 1 mark)

13. Here is a rectangle.



Work out the perimeter of the rectangle.

..... cm

(Total for Question 13 is 2 marks)

14. There are red, blue and green counters in a bag. The probability of picking a red counter is $\frac{2}{5}$. The probability of picking a blue counter is $\frac{1}{4}$.

Work out the probability of picking a green counter.

.....

(Total for Question 14 is 2 marks)

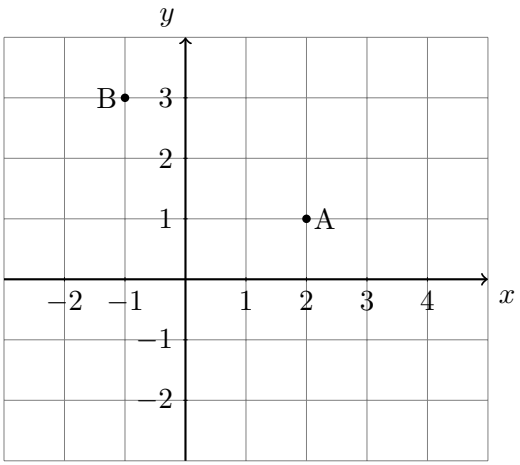
15. Write these numbers in order of size, starting with the smallest.

$$0.7 \quad \frac{3}{4} \quad 72\% \quad 0.09$$

.....

(Total for Question 15 is 2 marks)

16. Here is a coordinate grid.



(a) Write down the coordinates of point A.

(....., ...)

(1)

(b) Write down the coordinates of point B.

(....., ...)

(1)

(c) Plot the point C at coordinates (4, -2).

(1)

(Total for Question 16 is 3 marks)

17. Work out $2\frac{1}{3} + 1\frac{1}{6}$
Give your answer as a mixed number.

.....

(Total for Question 17 is 3 marks)

18. A recipe for 6 people needs 450g of flour.
How much flour is needed for 8 people?

..... g

(Total for Question 18 is 2 marks)

19. Here is a pictogram showing the number of books read by students in one week.

Monday

Tuesday

Wednesday

Thursday

Friday

Key: represents 4 books

(a) How many books were read on Tuesday?

.....

(1)

(b) How many more books were read on Thursday than on Friday?

.....

(2)

(Total for Question 19 is 3 marks)

20. Work out 6.2×4

.....

(Total for Question 20 is 2 marks)

21. The table shows information about the hair colour of students in a school.

Hair colour	Number of students
Brown	156
Blonde	84
Black	72
Red	28

What fraction of the students have red hair? Give your answer in its simplest form.

.....

(Total for Question 21 is 3 marks)

22. Write 24 as a product of prime factors.

.....

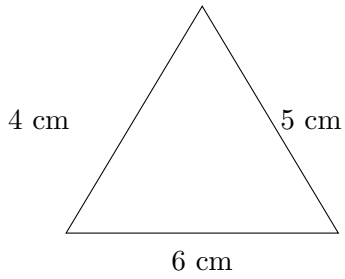
(Total for Question 22 is 2 marks)

23. A car travels 180 miles in 3 hours.
Work out the average speed of the car.

..... mph

(Total for Question 23 is 2 marks)

24. Here is a triangle.



Work out the area of the triangle.

..... cm^2

(Total for Question 24 is 2 marks)

25. Expand $3(x + 4)$

.....

(Total for Question 25 is 1 mark)

26. A shop increases its prices by 15%. A jacket originally cost £60.
What is the new price of the jacket?

£.....

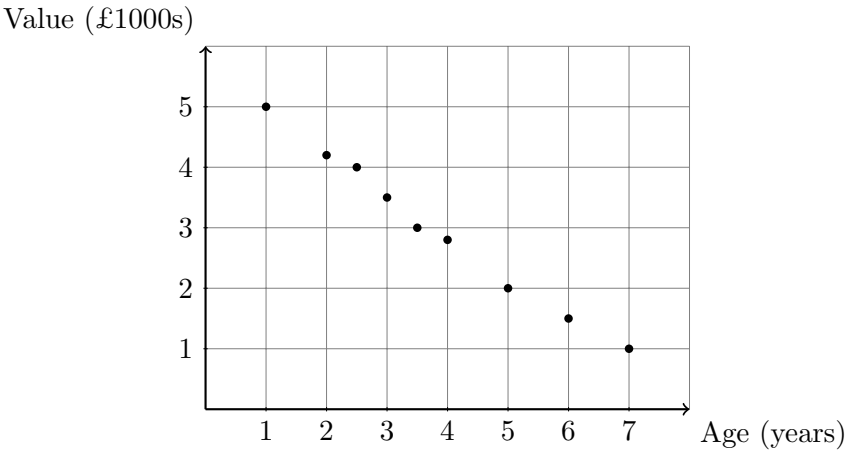
(Total for Question 26 is 2 marks)

27. Factorise $6x + 9$

.....

(Total for Question 27 is 1 mark)

28. Here is a scatter graph showing the relationship between the age of cars and their value.



(a) Describe the relationship between the age of a car and its value.

.....

.....

(1)

(b) A car is 4.5 years old. Use the graph to estimate its value.

£.....

(1)

(Total for Question 28 is 2 marks)

29. Solve $2x + 5 = 17$

$x =$ .....

(Total for Question 29 is 2 marks)

30. Write 0.04 as a percentage.

..... %

(Total for Question 30 is 1 mark)

TOTAL FOR PAPER IS 80 MARKS

Educational mathematics resources:
stepupmaths.co.uk