
GCSE Mathematics
Paper 1 (Non-Calculator)
Foundation Tier

Paper Reference: **GFP1.3**

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 8×9

.....
(Total for Question 1 is 1 mark)

- 2.** Round 47.83 to 1 decimal place.

.....
(Total for Question 2 is 1 mark)

- 3.** Write down the value of $\sqrt{36}$

.....
(Total for Question 3 is 1 mark)

- 4.** Here is a list of numbers:

1.09 1.9 0.19 1.19 0.9

Write down the smallest number.

.....
(Total for Question 4 is 1 mark)

- 5.** Simplify $m \times 6 \times n$

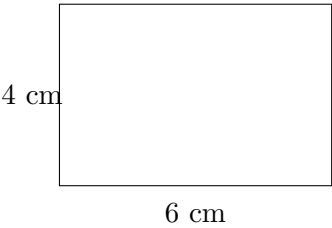
.....
(Total for Question 5 is 1 mark)

- 6.** A parking meter costs 40p for 30 minutes. Jack parks for 2 hours.
How much does Jack pay?

£

(Total for Question 6 is 3 marks)

7. Here is a scale drawing of a garden. The scale is 1 cm represents 2 m.



(a) What is the real length of the garden?
 m
 (1)

(b) What is the real width of the garden?
 m
 (1)

(Total for Question 7 is 2 marks)

8. Work out $-5 + 8$

.....
 (Total for Question 8 is 1 mark)

9. A box contains 24 chocolates. $\frac{3}{8}$ of the chocolates are dark chocolate.
 How many dark chocolates are in the box?

.....
 (Total for Question 9 is 2 marks)

10. Here is a tally chart showing the number of pets students have.

Number of pets	Tally	Frequency
0	_____	
1	_____	
2	_____	
3	_____	

Complete the frequency column.
 (Total for Question 10 is 2 marks)

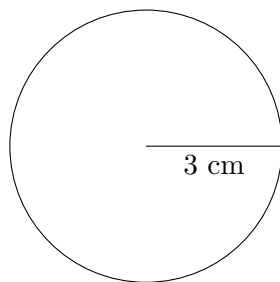
11. The temperature at midnight was $-3C$. By 6 am the temperature had risen by $7C$.
What was the temperature at 6 am?

..... C
(Total for Question 11 is 2 marks)

12. Solve $x - 4 = 9$

$x =$
(Total for Question 12 is 1 mark)

13. Here is a circle.



The radius is 3 cm.
Work out the circumference of the circle. Give your answer in terms of π .

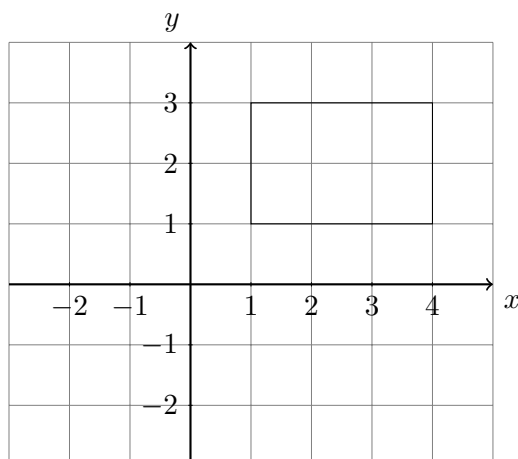
..... cm
(Total for Question 13 is 2 marks)

14. Write these fractions in order of size, starting with the smallest.

$$\frac{1}{2} \quad \frac{3}{4} \quad \frac{2}{3} \quad \frac{1}{4}$$

.....
(Total for Question 14 is 2 marks)

15. Here is a coordinate grid.



(a) On the grid, enlarge the rectangle with scale factor 2, centre (0,0).

(2)

(b) Write down the coordinates of one vertex of the enlarged rectangle.

(..... ,)

(1)

(Total for Question 15 is 3 marks)

16. A shop sells books for £8 each. In a sale, all books are reduced by 25%.
What is the sale price of a book?

£

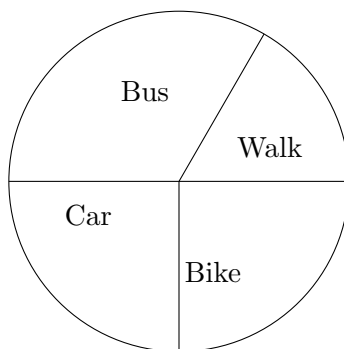
(Total for Question 16 is 2 marks)

17. Work out $4.7 + 2.85$

.....

(Total for Question 17 is 2 marks)

18. Here is a pie chart showing how 120 students travel to school.



(a) Which method of transport is used by most students?

..... (1)

(b) The angle for "Walk" is 120. How many students walk to school?

..... (2)

(Total for Question 18 is 3 marks)

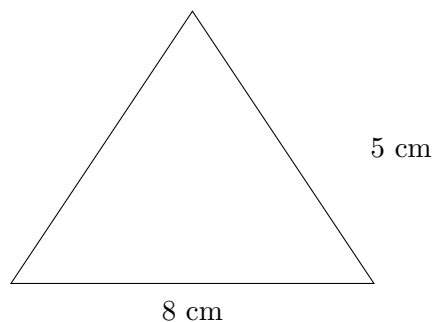
19. Work out $\frac{2}{7} + \frac{1}{7}$

..... (Total for Question 19 is 1 mark)

20. The mean of 5 numbers is 12. Four of the numbers are: 8, 11, 15, 9
Work out the fifth number.

..... (Total for Question 20 is 3 marks)

21. Here is a triangle.



The base is 8 cm and the height is 5 cm.
Work out the area of the triangle.

..... cm^2
(Total for Question 21 is 2 marks)

22. A spinner has 5 equal sections. 2 sections are red, 2 sections are blue, and 1 section is green.
(a) What is the probability of spinning red?

.....
(1)

(b) What is the probability of not spinning green?

.....
(1)
(Total for Question 22 is 2 marks)

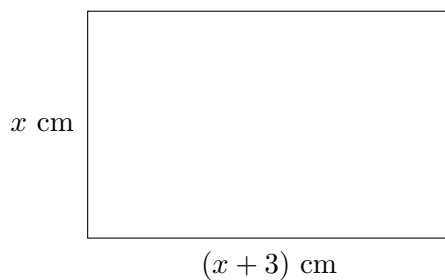
23. Expand $5(2x - 3)$

.....
(Total for Question 23 is 2 marks)

24. Write 36 as a product of prime factors.

.....
(Total for Question 24 is 2 marks)

25. Here is a rectangle.



The perimeter of the rectangle is 22 cm.

(a) Write down an equation in x .

.....
(2)

(b) Solve your equation to find the value of x .

$x =$
(2)
(Total for Question 25 is 4 marks)

26. A car travels 150 miles in 3 hours.
Work out the average speed of the car.

..... mph
(Total for Question 26 is 2 marks)

27. Work out $2\frac{1}{4} \times 3$
Give your answer as a mixed number.

.....
(Total for Question 27 is 2 marks)

28. Here is a frequency table.

Score	Frequency
1	5
2	8
3	12
4	7
5	3

- (a) Write down the mode.
..... (1)
- (b) Work out the range.
..... (1)
- (c) Work out the median.
..... (2)
- (Total for Question 28 is 4 marks)

29. Factorise $12a + 8$

.....
(Total for Question 29 is 2 marks)

30. A recipe for 8 people uses 320g of rice.
How much rice is needed for 5 people?

..... g
(Total for Question 30 is 2 marks)

TOTAL FOR PAPER IS 80 MARKS

Educational mathematics resources:
stepupmaths.co.uk