GCSE Mathematics
Paper 1 (Non-Calculator)
Foundation Tier

Paper Reference: **GFP1.2**

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 $24 - 17$

.....

(Total for Question 1 is 1 mark)

2. Write 0.6 as a fraction.

.....

(Total for Question 2 is 1 mark)

3. Work out 5^3

.....

(Total for Question 3 is 1 mark)

4. Here is a list of numbers:

-3 5 -1 2 -4

Write down the smallest number.

.....

(Total for Question 4 is 1 mark)

5. Simplify $7y + 3y$

.....

(Total for Question 5 is 1 mark)

6. A bag contains 20 sweets. Each sweet is either red or blue. There are 13 red sweets.
What fraction of the sweets are blue?

.....

(Total for Question 6 is 2 marks)

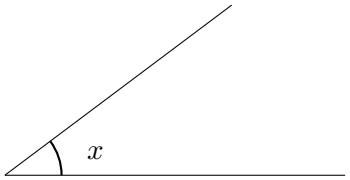
7. Write these decimals in order of size, starting with the smallest.

0.08 0.8 0.008 0.80

.....

(Total for Question 7 is 2 marks)

8. Measure the size of angle x.



..... °

(Total for Question 8 is 1 mark)

9. A train journey takes 2 hours 45 minutes. The train leaves at 9:35 am.
At what time does the train arrive?

.....

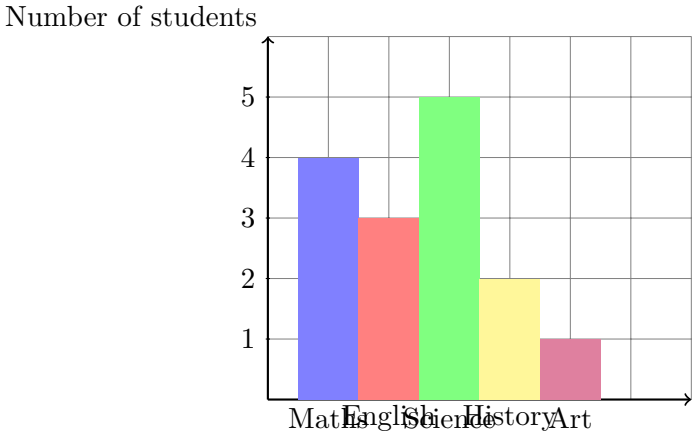
(Total for Question 9 is 2 marks)

10. Work out $\frac{2}{5} \times 30$

.....

(Total for Question 10 is 2 marks)

11. Here is a bar chart showing the favourite subjects of students in Year 9.



(a) Which subject is the most popular?

.....

(1)

(b) How many students chose History?

.....

(1)

(c) How many students were asked altogether?

.....

(1)

(Total for Question 11 is 3 marks)

12. Lisa has £4.50. She buys 3 apples at 35p each.
How much money does Lisa have left?

£.....

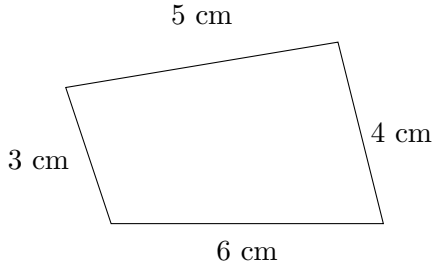
(Total for Question 12 is 3 marks)

13. Solve $3x = 21$

$x =$ .....

(Total for Question 13 is 1 mark)

14. Here is a quadrilateral.



Work out the perimeter of the quadrilateral.

..... cm

(Total for Question 14 is 2 marks)

15. There are some red and white roses in a garden. The ratio of red roses to white roses is 3:5. There are 12 red roses.
How many white roses are there?

.....

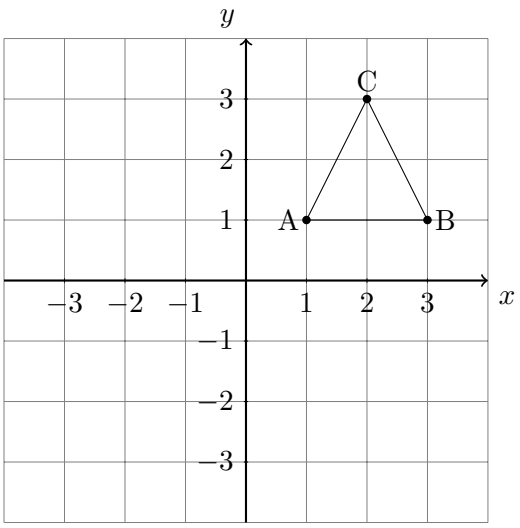
(Total for Question 15 is 2 marks)

16. Work out $84 \div 7$

.....

(Total for Question 16 is 1 mark)

17. Here is a coordinate grid.



(a) Write down the coordinates of point C.

(....., ...)

(1)

(b) Reflect triangle ABC in the y-axis. Label the new triangle DEF.

(2)

(Total for Question 17 is 3 marks)

18. A cinema has 240 seats. 65% of the seats are occupied.
How many seats are occupied?

.....

(Total for Question 18 is 2 marks)

19. Here are the first 5 terms of a number sequence:

4, 7, 10, 13, 16, ...

(a) Write down the next two terms.

..... , ...

(1)

(b) Write down the rule for continuing this sequence.

.....

(1)

(Total for Question 19 is 2 marks)

20. A bag contains 5 red balls, 3 blue balls and 2 green balls. A ball is picked at random.

(a) What is the probability of picking a red ball?

.....

(1)

(b) What is the probability of picking a ball that is not green?

.....

(2)

(Total for Question 20 is 3 marks)

21. Work out $1\frac{2}{3} - \frac{5}{6}$

Give your answer as a mixed number in its simplest form.

.....

(Total for Question 21 is 3 marks)

22. The table shows the number of goals scored by a football team in 12 matches.

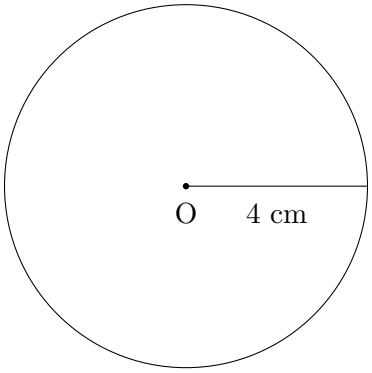
Number of goals	Frequency
0	3
1	4
2	3
3	1
4	1

Work out the mean number of goals scored per match.

.....

(Total for Question 22 is 3 marks)

23. Here is a circle with centre O.



The radius of the circle is 4 cm.
Work out the area of the circle. Give your answer in terms of π.

..... cm^2

(Total for Question 23 is 2 marks)

24. Expand and simplify $4(x + 3) + 2(x - 1)$

.....

(Total for Question 24 is 2 marks)

25. A recipe for 4 people uses:

- 200g flour
- 150ml milk
- 3 eggs

Tom wants to make this recipe for 6 people.

(a) How much flour does Tom need?

.....g

(2)

(b) How much milk does Tom need?

.....ml

(1)

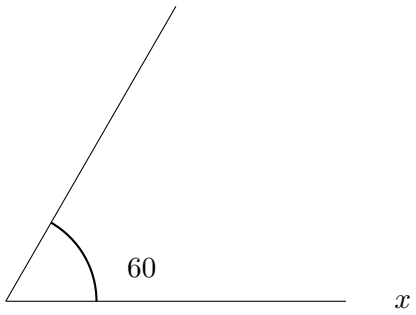
(Total for Question 25 is 3 marks)

26. Write down all the factors of 18.

.....

(Total for Question 26 is 2 marks)

27. The diagram shows an angle.



The two lines form a straight line.
Work out the value of x.

$x =$ .....

(Total for Question 27 is 1 mark)

28. Factorise $8x - 12$

.....

(Total for Question 28 is 2 marks)

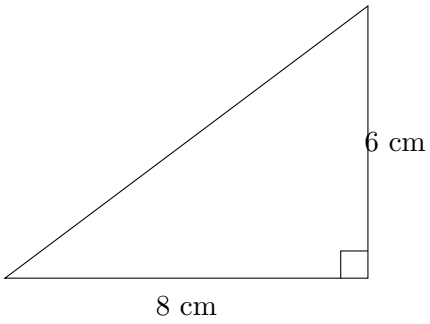
29. A shop sells phones. The original price of a phone is £240. In a sale, the price is reduced by 20%.

Work out the sale price of the phone.

£.....

(Total for Question 29 is 3 marks)

30. Here is a right-angled triangle.



Work out the area of the triangle.

..... cm^2

(Total for Question 30 is 2 marks)

TOTAL FOR PAPER IS 80 MARKS

Educational mathematics resources:
stepupmaths.co.uk