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**GCSE Mathematics**  
**Paper 1 (Non-Calculator)**  
**Foundation Tier**

Paper Reference: **GFP1.5**

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  $7 \times 8$

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

- 2.** Write  $\frac{7}{10}$  as a decimal.

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

- 3.** Work out  $\sqrt{49}$

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

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

2.5    2.05    2.15    2.51    2.1

Write down the largest number.

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

- 5.** Simplify  $3a + 5a$

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

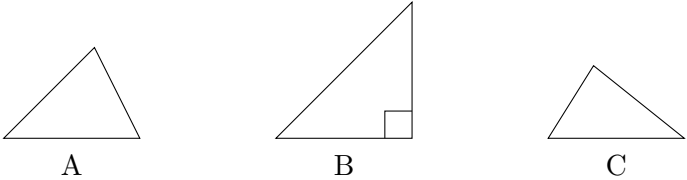
- 6.** A cinema has 200 seats.  $\frac{3}{5}$  of the seats are occupied.  
How many seats are occupied?

.....  
(Total for Question 6 is 2 marks)

7. Round 8.47 to the nearest whole number.

.....  
(Total for Question 7 is 1 mark)

8. Here are some angles:



(a) Write down the letter of the right angle.  
.....  
(1)

(b) Write down the letter of the obtuse angle.  
.....  
(1)  
(Total for Question 8 is 2 marks)

9. Work out  $-4 - 3$

.....  
(Total for Question 9 is 1 mark)

10. A packet of sweets costs 65p. How much do 4 packets cost?

£.....  
(Total for Question 10 is 2 marks)

11. Here is a two-way table showing information about 60 students.

|       | Year 10 | Year 11 | Total |
|-------|---------|---------|-------|
| Boys  | 15      | 12      | 27    |
| Girls | 18      |         | 33    |
| Total | 33      | 27      | 60    |

Complete the table.  
(Total for Question 11 is 2 marks)

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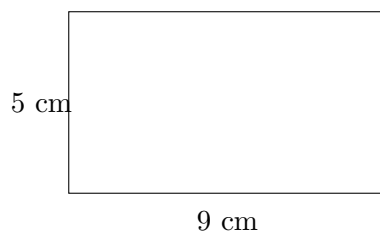
**12.** The temperature at 6 am was  $-8^{\circ}\text{C}$ . By midday the temperature had risen by  $12^{\circ}\text{C}$ .  
What was the temperature at midday?

..... $^{\circ}\text{C}$   
(Total for Question 12 is 2 marks)

**13.** Solve  $y + 6 = 14$

$y =$  .....  
(Total for Question 13 is 1 mark)

**14.** Here is a rectangle.



Work out the area of the rectangle.

.....  $\text{cm}^2$   
(Total for Question 14 is 2 marks)

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

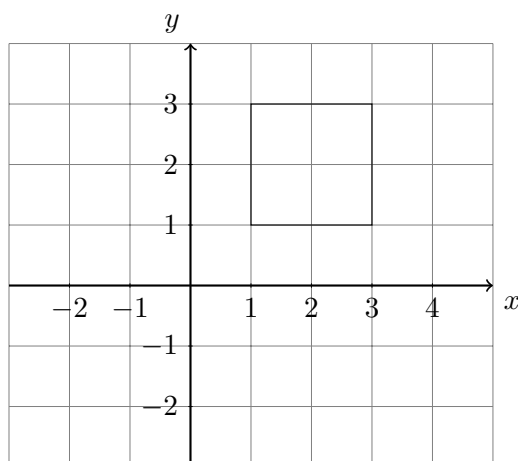
0.6     $\frac{2}{3}$     65%    0.59

.....  
(Total for Question 15 is 2 marks)

16. Work out  $95 \div 5$

.....  
(Total for Question 16 is 1 mark)

17. Here is a coordinate grid.

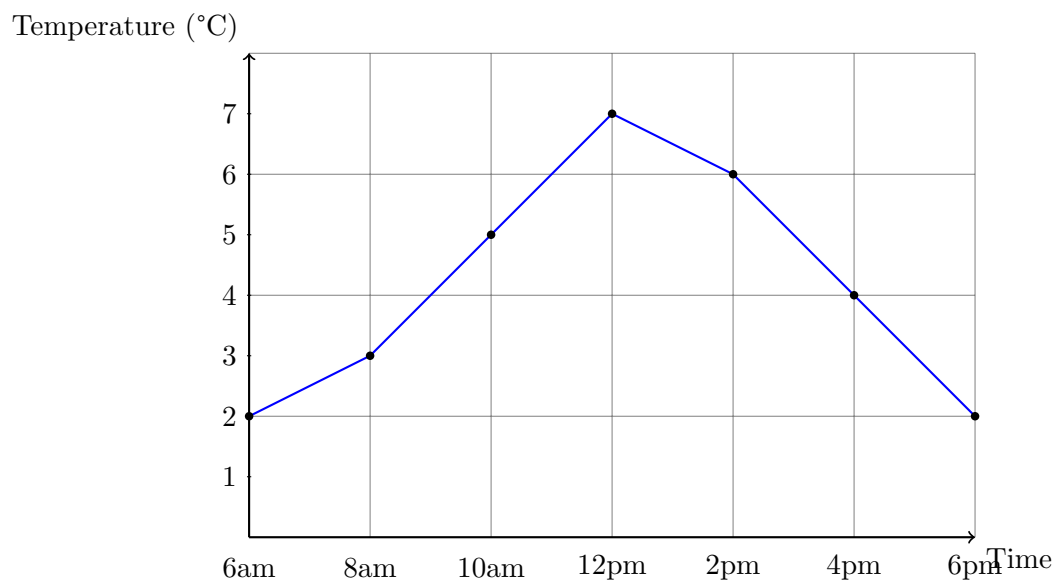


- (a) Translate the square 3 units to the left and 2 units down. (2)
- (b) Write down the coordinates of one vertex of the translated square.  
( ..... , ..... ) (1)
- (Total for Question 17 is 3 marks)

18. A bag of flour weighs 1.5 kg. A recipe uses 350g of flour.  
How much flour is left? Give your answer in grams.

..... g  
(Total for Question 18 is 3 marks)

19. Here is a line graph showing the temperature during one day.



- (a) What was the temperature at 10am?  
 .....C  
 (1)
- (b) At what time was the temperature highest?  
 .....  
 (1)
- (c) Between which two times did the temperature fall the most?  
 ..... to .....  
 (1)
- (Total for Question 19 is 3 marks)

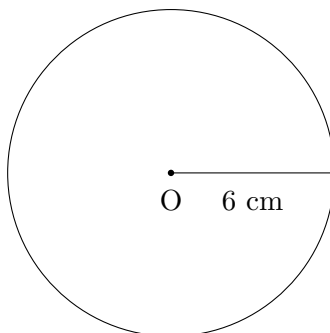
20. Work out  $\frac{5}{9} + \frac{2}{9}$

.....  
 (Total for Question 20 is 1 mark)

21. The median of 5 numbers is 8. Four of the numbers are: 3, 7, 9, 12  
 Work out the fifth number.

.....  
 (Total for Question 21 is 3 marks)

**22.** Here is a circle with centre O.



The radius is 6 cm.

Work out the area of the circle. Give your answer in terms of  $\pi$ .

.....  $\text{cm}^2$   
(Total for Question 22 is 2 marks)

**23.** A spinner has 8 equal sections. 3 sections are red, 3 sections are blue, and 2 sections are yellow.

(a) What is the probability of spinning yellow?  
.....  
(1)

(b) What is the probability of spinning red or blue?  
.....  
(2)  
(Total for Question 23 is 3 marks)

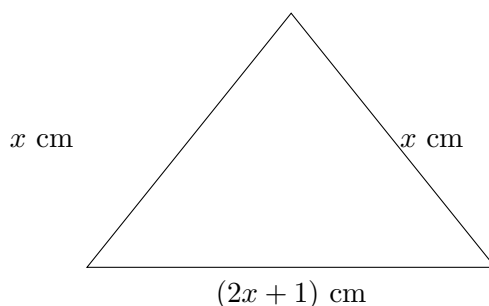
**24.** Expand  $4(3x - 2)$

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

**25.** Write 48 as a product of prime factors.

.....  
(Total for Question 25 is 2 marks)

**26.** Here is a triangle.



The perimeter of the triangle is 25 cm.

**(a)** Write down an equation in  $x$ .

..... (2)

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

$x =$  ..... (2)

(Total for Question 26 is 4 marks)

**27.** A car travels 240 miles in 4 hours.

Work out the average speed of the car.

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

**28.** Work out  $3\frac{1}{2} \div 2$

Give your answer as a mixed number.

.....  
(Total for Question 28 is 2 marks)

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**29.** Here is a frequency table showing the number of pets owned by families.

| Number of pets | Frequency |
|----------------|-----------|
| 0              | 12        |
| 1              | 18        |
| 2              | 8         |
| 3              | 4         |
| 4              | 2         |

(a) How many families were asked?

..... (1)

(b) Write down the mode.

..... (1)

(c) Work out the mean number of pets per family.

..... (3)

(Total for Question 29 is 5 marks)

**30.** Factorise  $21p + 14$

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

**TOTAL FOR PAPER IS 80 MARKS**

**Educational mathematics resources:**  
**[stepupmaths.co.uk](http://stepupmaths.co.uk)**