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Edexcel-style GCSE (9–1) Mathematics practice paper

Paper 1 (Non-calculator)

Foundation tier

Surname	
Other names	
Centre number	Candidate number

Time allowed	1 hour 30 minutes
Total marks	80
Materials	pen, pencil, ruler, protractor and compasses. A formulae sheet is supplied at the end of this paper.
Calculator	You must not use a calculator.

Instructions

• Use black ink or a ball-point pen.
• Answer all questions. Write your answers in the spaces provided; there may be more space than you need.
• You must show all your working out with your answer clearly identified at the end of your solution.
• Diagrams are NOT accurately drawn unless a question says so.

Information

• The total mark for this paper is 80.
• The marks for each question are shown in brackets, for example (2). Use this as a guide to how long to spend on the question.

Advice

• Read each question carefully before you start to answer it. Keep an eye on the time and try to answer every question. Check your answers if you have time at the end.

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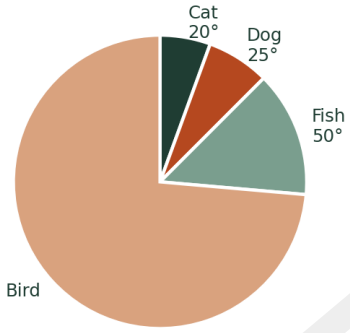
5 Write 1 1/7 as an improper fraction. **(2)**

Answer _____

(Total for Question 5 is 2 marks)

6 72 people were asked about their favourite pet. The pie chart shows the results. **(2)**
Work out the number of people who chose Cat.



Answer _____

(Total for Question 6 is 2 marks)

7 Work out 5x + 7 when x = −3. **(2)**

Answer _____

(Total for Question 7 is 2 marks)

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23 By rounding to the nearest square number, estimate √71. Is your estimate an overestimate or an underestimate? Explain. **(4)**

Answer _____

(Total for Question 23 is 4 marks)

24 Work out the mean, median and mode. **(4)**

nber of	1	2	3	4	5
Frequenc	5	2	11	12	7

Answer _____

(Total for Question 24 is 4 marks)

25 A metal block is a cuboid 5 cm by 4 cm by 10 cm and has mass 1.56 kg. Work out its density in g/cm³. **(5)**

Answer _____

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Mark scheme

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Award marks for correct answers. Where a question asks for working, award method marks for a correct method even if the final answer is wrong. Accept equivalent forms of the answer. Marks are shown per part; the total is 80.

Q	Answer	Marks	Working / guidance
1	**5900 m**	1	1 km = 1000 m; multiply by 1000
2	**11x**	1	9 + 2 = 11
3	**8**	1	60 − 52 = 8
4	**2**	2	Reverse: add 4, then divide by 2.
5	**8/7**	2	1 × 7 + 1
6	**4**	2	20/360 × 72
7	**−8**	2	Use brackets around negative numbers when substituting.
8	**x = 10**	2	Use inverse operations on both sides.
9	**4 : 7 : 5**	2	Divide all three by 5.
10	**7, 6, 5, 4, 3**	3	Substitute each x-value in turn.
11	**140°**	3	Exterior angle = 360 ÷ 9 = 40°; interior = 180 − 40
12	**40**	3	15 + 25
13	**124**	3	nth term = 4n + 8; at n = 29
14	**$x^2 + 4x - 12$**	3	Multiply each term in the first bracket by each term in the second, then collect like terms.
15	**10%**	3	Change = £28; (28 ÷ 280) × 100
16	**$2^4 \times 3$; $2^2 \times 3^2 \times 5$; HCF = 12**	3	
17	**75 ≤ x < 85**	3	Half of 10 is 5.
18	**20 km/h**	3	20 ÷ 1
19	**$12x^6$**	3	Multiply the numbers, add the powers.
20(a)	**430000000**	2	Move the decimal point.
20(b)	**7.7×10^5**	2	Rewrite with one digit before the decimal point.
21	**7**	4	3 parts = 21
22	**60 cm³**	4	4 × 5 × 3
23	**≈ 8**	4	√71 = 8.43
24	**mean 3.38, median 4, mode 4**	4	Add up x × f, then divide by the number of students.
25	**7.8 g/cm³**	5	Volume = 200 cm³; mass = 1560 g; 1560 ÷ 200
26	**7 hours 30 minutes**	5	t = 60/n

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