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

Paper 2 (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 scientific calculator. A formulae sheet is supplied at the end of this paper.
Calculator	You may use a calculator.

Instructions

• Write in black ink or ball-point pen.
• Answer all questions in the spaces provided. Do not write outside the answer spaces.
• Show clearly how you work out each answer: you may get marks for your method even if the answer is wrong.
• Do all rough work on this paper and cross it out neatly.
• Diagrams are not accurately drawn unless a question says so.

Information

• The marks for each question are shown in square brackets, like this: [2 marks].
• The maximum mark for this paper is 80.
• The questions generally get harder as you work through the paper.

Advice

• Read each question carefully, keep an eye on the time and try to answer every question. Check your work if you have time at the end.

This is a JRA Tutors practice paper written in the style of the AQA GCSE Mathematics papers. It is not an official past paper, a prediction of the real 2027 paper, or produced or endorsed by AQA.

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7 x = 37 correct to the nearest whole number. Write down the error interval for x. **[2 marks]**

Answer _____

8 Solve 4x + 10 = 46. **[2 marks]**

Answer _____

9 A worker earns £11 per hour. How much for 4 hours? **[2 marks]**

Answer _____

10 y is directly proportional to x. When x = 4, y = 10. Work out y when x = 14. **[3 marks]**

Answer _____

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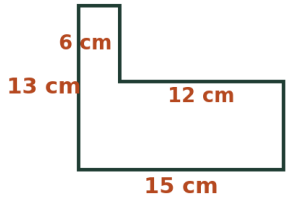
11 Estimate the value of (27 × 4.1) ÷ 0.43 by rounding each number to 1 significant figure. **[3 marks]**

Answer _____

12 Work out the area of the shape. **[3 marks]**



Answer _____

13 Complete the table of values for y = 3x + 5, for x = −2, −1, 0, 1, 2. **[3 marks]**

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	**2p**	1	5 − 3 = 2
2	**19.36**	1	Use the calculator carefully; check the brackets and the rounding.
3	**7000 m**	1	1 km = 1000 m; multiply by 1000
4	**58.5°**	2	(180 − 63) ÷ 2
5	**5**	2	30/360 × 60
6	**0**	2	Read the frequencies from the points on the graph.
7	**36.5 ≤ x < 37.5**	2	Go half a unit either side.
8	**x = 9**	2	Use inverse operations on both sides.
9	**£44**	2	rate × time
10	**35**	3	y = 2.5x
11	**300**	3	30 × 4 ÷ 0.4
12	**123 cm²**	3	15×13 − 12×6
13	**−1, 2, 5, 8, 11**	3	Substitute each x-value in turn.
14	**HCF = 90, LCM = 900**	3	Use prime factors.
15	**Boys 35, Girls 45; boys on bus 18; girls who walk 33**	3	Girls = 80 − 35; use totals on each branch.
16	**147**	3	nth term = 8n + 3; at n = 18
17	**$x^2 - 2x - 24$**	3	Multiply each term in the first bracket by each term in the second, then collect like terms.
18	**$16x^{10}$**	3	Square the number and double the power.
19	**16 cm**	3	320 cm ÷ 20
20	**28 cm**	4	Width = 6
21	**15**	4	Exterior = 24°; 360 ÷ 24
22	**377 cm²**	4	2πr² + 2πrh
23	**2.90**	4	Add up x × f, then divide by the number of students.
24	**(4, 3)**	4	C = B + D − A = (8, 6); midpoint of AC = (4, 3)
25	**4.77×10^2**	5	6.2 ÷ 1.3 = 4.7692…; 10^6 ÷ 10^4 = 10²
26	**20 km/h (A: 80 km/h, B: 60 km/h)**	5	60 ÷ 0.75 = 80; 60 ÷ 1 = 60
27(a)	**40%**	2	Multiply by 100.

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