

General Marking Guidance Mathematics

- If a learner has crossed out a response to a question, the work should still be marked unless the learner has replaced it with an alternative answer.
- Markers should apply the mark scheme consistently across all papers marked.
- Markers should mark according to the mark scheme and should apply it positively awarding full marks where the answer meets the mark scheme.
- Where the answers do not meet the mark scheme, markers should be prepared to award zero marks.
- The mark scheme gives guidance as to how to allocate marks where an answer is graded according to candidate performance. Where the response does not meet the requirements of the minimum mark, zero marks should be awarded.
- Where the mark scheme allows a mark for 'accept.../allow...', the marker should judge the response's merits based on the information provided in the assessment materials.
- Where the marker is unsure of how to apply the mark scheme, guidance from the Principal Examiner must be sought.
- Where the mark scheme has responses in brackets e.g. (£)5.00, the learner will gain the mark whether or not the information within the brackets is present or not as long as the answer is correct.
- Accept variations of spelling.
- When units are required abbreviations must be correct.

The mark scheme is a guide of possible answers that can be accepted, however, if the candidate has an alternative working out system to arrive at the correct answer this will also be accepted and marked accordingly.

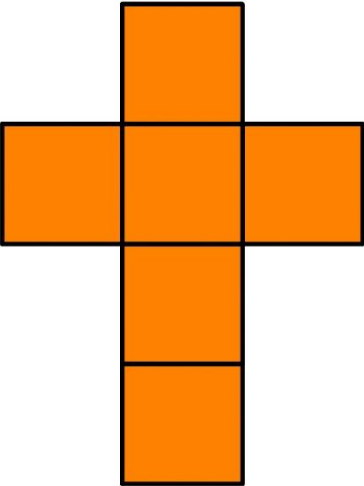
Non-Calculator Section						
	Mark Available	Acceptable Response	Mark	Comment	UPS/PS	Subject Content
Q1	2	39.856 rounded to 40 7.421 rounded to 7 Estimation 280	1 mark 1 mark		UPS	N12
Q2	2	$4+1+6+29+3+23\div 6$ 11	1 mark 1 mark		UPS	HD29
Q3	2	0.25 25%	1 mark 1 mark	1 mark for each correct answer	UPS	N16
Q4	2	E.g. 0.05×300 or $300 \times 5 \div 100$ Correct answer £15	1 mark 1 mark		UPS	N14
Q5	2	72,520 135,700, 109,600, 87,300, 72,520, 52,525	1 mark 1 mark		UPS	N1
Q6	4	e.g. $1050 \div 10 \times 3 = 315$ e.g. $1050 \div 3 \times 2 = 700$ $700 + 315 = 1015$ $1050 - 1015 = £35$	1 mark 1 mark 1 mark 1 mark	Must see final answer with units	PS	N9

		Calculator Section				
	Mark Available	Acceptable Response	Mark	Comment	UPS/PS	Subject Content
Q7	3	Calculates totals $(20 \times 20) - 47 = 353$ Approximation 350/400 Simplified 7/8	1 mark 1 mark 1 mark		PS	N15
Q8	4	Calculate A to D via B, $7.3 + 4.3 = 11.6$ Calculate A to D via C, $5.6 + 5.2 = 10.8$ Convert cm to km e.g. $10.8 \times 5 = 54$ Correct decision A to D via C	1 mark 1 mark 1 mark 1 mark	Allow +/-2mm Allow +/-2mm Allow FT	PS	N11 MSS21
Q9	2	Correctly converts 570, 600 1200g to kg Correct answer 3.8(kg)	1 mark 1 mark		PS	MSS20
Q10	5	Calculates the journey distance: $37+53+40+20= 150$ Uses the formula: $150 / 40 = 3.75$ Converts time into units – 3 hours and 45minutes 3x20 min stops (1 hr) makes the total journey time. 4hours 45minutes Time arrives back. 1.45pm, or 13:45	1 mark 1 mark 1 mark 1 mark 1 mark		PS	N5
Q11	4	e.g. $40 \div 5 = 8$ min per mile $8 \times 13 = 104$ $104 \div 60 = 1.733$ hours OR 104 minutes = 1 hr 44 min Reason e.g. no guarantee speed is proportionate/consistent	1 mark 1 mark 1 mark 1 mark	Accept any valid explanation	PS	N17 MSS20e

	Mark Available	Acceptable Response	Mark	Comment	UPS/PS	Subject Content
Q12	6	Calculate one area e.g. $106 \times 31 = 3286$ Find missing side $106 - 18 - 47 = 41$ Calculate area two e.g. $41 \times 60 = 2460$ Total Area $3286 + 2460 = 5746(m^2)$ Calculate cost $5746 \times 0.04 = (£)229.84$ Decision e.g. Green Gardens is the cheapest	1 mark 1 mark 1 mark 1 mark 1 mark		PS	MSS22
Q13	3	Correct volume $9.58 \times 3.76 \times 4.53 = 163.174224$ Correct answer 163.17 Correct answer $163.17m^3$	1 mark 1 mark 1 mark		UPS	MSS23 N12 MSS23
Q14	2	e.g. $1525.80 - 375.20$ Correct answer £1,150.60	1 mark 1 mark	Allow 2 marks if £1150.60 seen	PS	N2 N11

	Mark Available	Acceptable Response	Mark	Comment	UPS/PS	Subject Content
Q15	4	Correct plotting for all 6 Axis labels and labels Appropriate scale and axis	2 mark 1 mark 1 mark	Allow 1 mark for 3 correct plots	PS	HD27
Q16	2	Method to calculate discount e.g. $120 \times 15 \div 100 = (18)$ or $120 \times 85 \div 100 = (102)$ Correct cost (£)102.00	1 mark 1 mark		PS	MSS19
Q17a	2	2/10 1/5	1 mark 1 mark	Allow two marks if 1/5 seen	PS	HD31
Q17b	2	Identifies the number 1 Justification given e.g. the number appears the most on the spinner	1 mark 1 mark		PS	HD30
Q18	2	1 mark for attempted net 2 marks complete correct drawing	1 mark 2 mark		PS	MSS25
Q19	1	$42 \div 3 \times 29 + 16 = 422$	1 mark		UPS	N7
	Total Marks 56	Pass Mark 34/56			UPS 14 PS 42	N = 29 MSS = 17 HD = 10

Example net Q18:





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