

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. Standardisation will take place at the beginning, middle and end of the marking window to ensure this takes place.
- 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 'any (other) valid response', 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 team leader must be sought.
- Where the mark scheme has responses in brackets – (£)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.
- Some answers allow follow through marks where the learner has found an incorrect answer in a previous part of the task. If this is the case, the marker must check that the learner's answers are correct and should apply the format of the mark scheme to the learner's response.
- Calculators may be used.

	Mark Available	Acceptable Response	Comment	RAI	Coverage and range
Task 1 Q1a	1	Full method to work with mean (24 + 23 + 24 + 26 + 27) ÷ 5 (=24.8)		R	k
	1	Correct answer 24.8(°C)		I	k
	Total Marks 2			R=1 A=0 I=1	
Task 1 Q1b	1	Full method to work with range (27 – 23)=4		R	k
	Total Marks 1			R=1 A=0 I=0	

	Mark Available	Acceptable Response	Comment	RAI	Coverage and range
Task 1 Q2a	1	Finds cost of 7 nights at hotel or discount for 1 night $176.85 \times 7 (=1237.95)$ OR $176.85 \times 0.31 (=54.82\dots)$		R	b
	1	Develops solution '1237.95' $\times 0.31 (=383.76\dots)$ OR $176.85 \times 0.69 (=122.02\dots)$		R	d
	1	Full method to find total cost of hotel after discount '1237.95' – '383.76...' (=854.18...) OR $1237.95 \times 0.69 (=854.18\dots)$		A	d
	1	Finds cost of flights, luggage and insurance $2 \times 245.27 + 4 \times 19.50 + 2 \times 10.35 (=589.24)$		A	h
	1	Complete method to find total cost of holiday '854.18...' + '589.24' (=1443.42...)		I	h
	1	Correct answer in correct money notation £1443.42 or £1443.43	MUST have correct money notation	I	a
	Total Marks 6				R=2 A=2 I=2

	Mark Available	Acceptable Response	Comment	RAI	Coverage and range
Task 1 Q2b	1	Uses conversion factor $110.16 \div 1.16$ (= (£)94.96...) OR 95.36×1.16 (=110.61... (euros))		R	c
	1	Complete method to find figures to compare '94.96...' + 0.50 (=95.46) OR $95.36 - 0.50$ (=94.86) OR $95.36 - 94.96$ (0.40) OR '110.61...' - 110.16 (=0.45...) and $0.45 \div 1.16$ (= (£)0.522)		A	h
	1	Yes and (£)95.46 OR Yes and (£)94.86 and (£)94.96 OR Yes and (£)0.40		I	a
	Total Marks 3			R=1 A=1 I=1	
Task 1 Q2c	1	Suitable check of candidate's working		A	b
	Total Marks 1			R=0 A=1 I=0	

	Mark Available	Acceptable Response	Comment	RAI	Coverage and range
Task 1 Q2d	1	Starts to work with time $35 \div 90 (=0.38\dots)$ (hrs)		R	e
	1	Develops '0.38...' $\times 60 (=23.3\dots)$ (mins) OR $35 \div 90 (=0.38\dots)$ and $40 \div 60(=0.66\dots)$		A	h
	1	Correct answer and accurate figures No and it would take [23, 24] (mins) OR No and (it would take) 0.38... (hrs) and (40 mins is) 0.66... (hrs)		I	a
	Total Marks 3			R=1 A=1 I=1	

	Mark Available	Acceptable Response	Comment	RAI	Coverage and range
Task 1 Q3a	1	Starts to work with formula $5 \div 9 (=0.55\dots)$ OR $76.3 - 32 (=44.3)$		R	e
	1	Complete substitution into formula $5 \div 9 \times (76.3 - 32) (=24.61\dots)$		A	e
	1	Correct answer 24.61(°C)		I	h
	1	Correct answer to 1 dp 24.6°C	MUST be fully correct to 1dp	I	a
	Total Marks 4				R=1 A=1 I=2

	Mark Available	Acceptable Response	Comment	RAI	Coverage and range
Task 1 Q3b	1	Starts to work with probability $100 - 18 (=82)(\%)$		R	I
	1	Finds figures to compare $\frac{4}{5} \times 100 (= 80) (\%)$ OR 0.82 and $4 \div 5 (=0.8)$ OR $\frac{82}{100} = \frac{41}{50}$		A	I
	1	Communicates correct solution Jess is wrong Scott is correct with numerical justification		I	d
	Total Marks 3			R=1 A=1 I=1	
Task 1 Q3c	1	Suitable check of candidate's working.		A	b
	Total Marks 1			R=0 A=1 I=0	

	Mark Available	Acceptable Response	Comment	RAI	Coverage and range
Task 1 Q4	1	Works with at least 3 times 11.15, 2 hours 20 mins, +15, -20, 1 hour e.g. 11.15 + 2 hours 20 mins + 15(=13:50)		R	h
	1	Complete method to find local time e.g. 11.15 + 2 hours 20 mins + 15 -20 + 1hr (=14:30)		A	h
	1	Correct answer in correct time notation 14:30 or 2.30pm	MUST be correct time notation	I	a
	Total Marks 3			R=1 A=1 I=1	

	Mark Available	Acceptable Response	Comment	RAI	Coverage and range
Task 2 Q1a	1	Works in consistent units 3200(mm), 1800(mm), 0.6(m), 0.4(m) OR 320(cm) or 180(cm) and 60(cm) or 40(cm) seen or used in calculation		R	b
	1	Method to find number of tiles to fit along 1 dimension $320 \div 60 (=5.3\dots)$ oe or $180 \div 40 (=4.5)$ oe		R	d
	1	Method to find number of tiles to fit along 2 dimensions $320 \div 60 (=5.3\dots)$ oe and $180 \div 40 (=4.5)$ oe		A	d
	1	Rounds both values up to 6 and 5		I	h
	1	Full method to find total number of tiles needed '6' \times '5' = (30)		A	h
	1	Correct answer 30 (tiles)		I	a
	Total Marks 6				R=2 A=2 I=2

	Mark Available	Acceptable Response	Comment	RAI	Coverage and range
Task 2 Q1b	1	Works out cost of tiles before discount $38 \times 6 (=£)228$		R	b
	1	Starts to work with discount $228 \div 5 (=45.60)$ OR $38 \div 5 (=7.60)$		R	d
	1	Finds discounted price of tiles $228 - 45.60 (=182.40)$ OR $(38 - 7.60) \times 6 (= 182.40)$		A	d
	1	Complete method to find cost of tiles and labour $'182.40' + 7 \times 30 (=392.40)$		R	h
	1	Works with VAT $'392.40' + 0.2 \times '392.40' (=470.88)$		A	d
	1	Correct answer £470.88	Correct answer only	I	a
	Total Marks 6				R=3 A=2 I=1

Task 2 Q1c	1	Suitable check of candidate's working		A	b
	Total Marks 1			R=0 A=1 I=0	

	Mark Available	Acceptable Response	Comment	RAI	Coverage and range
Task 2 Q2a	1	Starts to work with area $3.2 \times 3.1 = (9.92)$ OR $1.3 \times 1.7 = (2.21)$		R	g
	1	Finds both relevant areas $9.92 \text{ (m}^2\text{)}$ and $2.21 \text{ (m}^2\text{)}$	Accept 10.91 and 2.43 (10%) added earlier	R	g
	1	Method to work out wastage: e.g. $2.21 \times 100 / 9.92$		A	g
	1	% identified as: 22.28 % or 22.27% if 10% added earlier		R	h
Q2b	1	Method to add 10% to area or costs per square metre or already included in figures		A	h



1	Method to find total cost of carpet e.g. $10.912 \times \text{£}17.20 = (187.69)$ OR $9.92 \times \text{£}18.92 = (187.69)$		A	d
1	Correct answer $\text{£}187.69$ or $\text{£}187.68$		l	a
Total Marks 7			R=3 A=3 l=1	

	Mark Available	Acceptable Response	Comment	RAI	Coverage and range
Task 2 Q3	1	Begins to work with scale 2000 ÷ 20 (=100) (mm) or 1000 ÷ 20 (=50) (mm)		R	c
	1	Complete method to find dimensions on scale diagram 2000 ÷ 20 (=100) (mm) and 1000 ÷ 20 (=50) (mm)		A	c
	1	Communicates solution 100mm and 50mm OR 10cm and 5cm OR 0.1m and 0.05m	MUST have units	I	h
	Total Marks 3			R = 1 A = 1 = 1	
Total Marks	50 Marks	Pass Mark 34		R=18 A=18 I =14	