



GCSE MARKING SCHEME

SUMMER 2025

**GCSE
MATHEMATICS – NUMERACY
UNIT 1 – INTERMEDIATE TIER
3310U30-1**

About this marking scheme

The purpose of this marking scheme is to provide teachers, learners, and other interested parties, with an understanding of the assessment criteria used to assess this specific assessment.

This marking scheme reflects the criteria by which this assessment was marked in a live series and was finalised following detailed discussion at an examiners' conference. A team of qualified examiners were trained specifically in the application of this marking scheme. The aim of the conference was to ensure that the marking scheme was interpreted and applied in the same way by all examiners. It may not be possible, or appropriate, to capture every variation that a candidate may present in their responses within this marking scheme. However, during the training conference, examiners were guided in using their professional judgement to credit alternative valid responses as instructed by the document, and through reviewing exemplar responses.

Without the benefit of participation in the examiners' conference, teachers, learners and other users, may have different views on certain matters of detail or interpretation. Therefore, it is strongly recommended that this marking scheme is used alongside other guidance, such as published exemplar materials or Guidance for Teaching. This marking scheme is final and will not be changed, unless in the event that a clear error is identified, as it reflects the criteria used to assess candidate responses during the live series.

WJEC GCSE MATHEMATICS - NUMERACY

SUMMER 2025 MARK SCHEME

GCSE Numeracy Unit 1: Intermediate Tier	Mark	Comments
1(a) 1.5 (furlongs)	B1	Answer space takes precedence
1(b) 7×220 or $1100 + 2 \times 220$ or $880 + 660$ or $2 \times 880 - 220$ or $2 \times 660 + 220$ or $4 \times 330 + 220$ or 2×770 or equivalent 1540 (yards)	M1 A1	Appropriate calculation that could lead to 1540 Answer space takes precedence
1(c) 6 (furlongs)	B2	Answer space takes precedence Only FT provided 'their answer' > 5 and $\neq 7$: - FT $4 \times$ 'their (a)' provided 'their (a)' > 1.25 - FT 'their (b)' $\neq 1320$ as follows, if not a whole number answer, convincing accuracy to at least 1 d.p. is required: $7 - ('their (b)' - 1320) \div 220$ if $1320 < 'their (b)' < 1760$ $7 + (1320 - 'their (b)') \div 220$ if $1100 < 'their (b)' < 1320$ B1 for any of the following in working: $1320 \div 220$ $1100 + 220$ 1320 as a sum of 6 multiples of 220 220×6 $880 + 440$ 660×2
2(a) (Sean Sheep Mix) (£)11.9(0)	B2	For B2, if units are given they need to be correct Award B1 for any one of the following or equivalent: $14 - 0.15 \times 14$ $14 - 1.4(0) - 0.7(0)$ $(£)14 - 140(p) - 70(p)$ $(0.15 \times 14.00 =) 2.1(0)$ or 210
(Rugged Sheep Mix) (£)9	B2	For B2, if units are given they need to be correct Award B1 for any one of the following or equivalent: $24 - \frac{5}{8} \times 24$ $\frac{3}{8} \times 24$ $(24 \div 8) \times 3$ $(\frac{5}{8} \times 24 =) 15$
Conclusion 'Rugged (Sheep Mix)' (by) (£)2.9(0)	B1	Answer spaces take precedence FT provided at least B1(Sean) and B1 (Rugged) previously awarded for appropriate conclusion from a comparison and the correct evaluation of the difference in 'their derived sheep mix costs', including $£15 - £2.10 = (£)12.9(0)$ with Sean (Sheep Mix)
2(b) $\frac{5}{26}$	B1	

2(c) (Cost of 1.5 litres ice cream =) $18.50 - 2 \times 3.25$ (£)12 (Cost of 1 litre ice cream =) $(12 \div 3) \times 2$ or $12 \div 1.5$ (£)8	M1 A1 M1 A1	(= $18.50 - 6.50$) Allow $18.50 - 3.25 - 3.25$ provided not contradicted in further working Allow an embedded 12, e.g. $6.50 + 12 = 18.50$, provided not contradicted in further working FT provided $6.50 \leq \text{'their cost of 1.5 litres ice cream'} \leq 18.50$ May be shown in stages Answer space takes precedence FT provided 'their cost of 1.5 litres ice cream' derived from a calculation involving $18.50 - (2 \times) 3.25$ On FT allow rounding or truncation If M1A1M0A0, award SC1 for (0.5 litres is) (£)4 provided not from incorrect working or appropriate sight of $12 \div 3 = (£)4$ or $4 + 4 + 4 = (£)12$, or equivalent on FT, allowing actual values, truncation or rounding to a penny
2(d)(i) 1.6 (m³)	B2	Mark final answer B1 for appropriate sight of any one of the following or equivalent, that may be seen or implied in stages: • $4 \times 0.5 \times 0.8$ • attempt to evaluate the product of three numbers with digits 4, 5 and 8 with place value errors • final answer (including in the answer space) with digits 16 but incorrect place value (other digits would be zero)
2(d)(ii) (Delivery cost £ =) $5 \times (4.1 + 0.6 + 0.9)$ or 5×5.6 or $5 \times 5 + 5 \times 0.6$ (£)28(.00)	M1 A1	Ignore incorrect units given If no marks, award SC1 for an answer of (£)26.5(0) provided it is from use of internal measurements ($5 \times (4 + 0.5 + 0.8)$)
3(a) Angle required $60(^{\circ}) \pm 2(^{\circ})$ or Seaside is 16.6(6...)% or 16.7% $\frac{60}{360} \times 480 \times 2$ or $\frac{60}{180} \times 480$ or $480 \div 3$ or $60 \times 480 \times 2 \div 360$ or $60 \times 480 \div 180$ or equivalent 160 (people)	B1 M1 A1	Check diagram (allow sight of 60 in Seaside) Do not allow 60 people, unless used as 60° in further working May be implied by one of the following: • $\frac{1}{3} \times 480$ or $\frac{1}{3}$ of 480 or $480 \div 3$ ($\frac{1}{3}$ of 'Town and city') • $\frac{1}{6} \times 2 \times 480$ or $\frac{1}{6}$ of 2×480 ($\frac{1}{6}$ of the pie chart) • a correct appropriate calculation showing $60 + 120 = 180$ Implies previous B1 FT $45(^{\circ}) < \text{'their } 60(^{\circ})'$ provided $< 90(^{\circ})$ or $12.5\% < \text{'their } 16.6(6..)\%$ provided $< 25\%$ Only FT to accept answers in the range 154 to 166 (people) and must be a whole number of people

5. (Cost of 500ml of honey is) (£) 3.2(0) (Sells 200ml jar of honey for) (£) 1.4(0)	B1 B3	<u>Accept equivalents in pence throughout, penalise inconsistent place value or units -1 only, however do not penalise incorrect notation if used correctly, e.g. 0.64p used as £0.64</u> May be implied in further working Mark final answer FT 'their £3.20' ('their cost of 500ml of honey') including if £3.40 used for possible B3, B2 and B1 B2 for any one of the following: • (Cost of 200ml of honey is) (£) 1.28 • $2 \times \text{'their 3.20'} \div 5$ correctly evaluated • (Cost of 200ml jar of honey is) $2 \times 3.20 \div 5 + 0.12$ or $2 \times 0.64 + 0.12$ • $2 \times \text{'their 3.20'} \div 5 + 0.12$ B1 for any one of the following: • $2 \times 3.20 \div 5$ • $2 \times \text{'their 3.20'} \div 5$ • appropriate sight of (100ml for) 64(p) or (£)0.64 • appropriate sight of 'their 3.20' $\div 5$ correctly evaluated • $0.12 + 3.20 \div 5$ (= 76p) • $0.12 + \text{'their 3.20'} \div 5$
Organisation and communication Writing	OC1 W1	For OC1, candidates will be expected to: • present their response in a structured way • explain to the reader what they are doing at each step of their response • lay out their explanations and working in a way that is clear and logical • write a conclusion that draws together their results and explains what their answer means For W1, candidates will be expected to: • show all their working • make few, if any, errors in spelling, punctuation and grammar • use correct mathematical form in their working • use appropriate terminology, units, etc.

6(a)(i) A statement regarding e.g. Q1: 'biased question', 'leading question', 'depends on matter of opinion', 'what does lots mean?', 'lots of books has not been defined'	E1	For any one equivalent statement. Ignore additional comments. Allow, e.g. 'assuming that most children read books', 'it's telling me an opinion', 'makes you feel you should answer yes', 'it's not a question, it's an assumption', 'if the child doesn't then it will make them feel stupid and less than the others', 'because it says most children read lots of books', 'because it's implying that if you don't read lots of books then you're different', 'might only read a few books not lots', Do not accept, e.g. 'too vague', 'doesn't give data', 'it isn't specific', 'doesn't say the exact amount', 'no option boxes given', 'it isn't a tick question', 'too open ended', 'no space to answer', 'because some kids don't read', 'it doesn't say when', 'children could lie', 'answers won't calculate the number of books children read', 'should be 'do you read books'
6(a)(ii) A statement regarding e.g. Q2: 'don't know which holidays', 'don't know how long the holidays are', '10 books in 2 boxes', 'overlapping groups'	E1	For any one of these, or equivalent statement. Ignore additional comments. Allow, e.g. '10 and 20 are repeated', 'it should be 1-10, 11-20, more than 20' Do not accept, e.g. 'too vague' 'they may not know the answer to the question', 'they might not have counted how many books they have read', 'they can't remember how many books read', 'should ask, do you read books and then ask how many', 'if they said no to the 1st question, then would have to say no to the 2nd', 'too big a range', 'needs more option boxes', 'boxes should be in more detail as you can't find out how many books children have read', 'numbers are too high', 'results wouldn't be accurate as groups have been used', 'options not valid', 'during the holidays' <u>If no marks, award SC1 if both (i) and (ii) correct but in reverse order.</u>

6(b) A criticism regarding any one of the following: • only children who use the library asked • only carried out on that day • only asked children who like books • it is biased in favour of children who like to read	E1	For any one of these, or equivalent statement. Ignore additional comments. Allow, e.g. 'school holidays end on Sunday not Saturday and the children might read more books before the holiday ends', 'people at library likely to read', 'should have been given out at home time', 'some children may not go to the library on a Saturday morning', 'survey only carried out on the one day', 'ask at a library so people will answer yes', 'survey only carried out on Saturday', 'not all children would be there', 'Saturday is a quiet day, a weekday would be better' Do not accept, e.g. 'asked on the way out', 'asking children without consent', 'asking children in front of others', 'comparing children', 'might not know how many they read'
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7. Unambiguous correct position of X	B3	<u>X must be shown within the tolerance $\pm 2\text{mm}$, $\pm 2^\circ$</u>, not for the sight of the intersection of lines within tolerance $\pm 2\text{mm}$ or $\pm 2^\circ$ or a dot B2 for the any one of the following: - unambiguous intersection of 2 appropriate lines within tolerance $\pm 2\text{mm}$ or $\pm 2^\circ$, but the position of X is not indicated, e.g. - unambiguous angle bisector between front and right wing $\pm 2^\circ$ <u>AND</u> unambiguous horizontal line $2\text{cm} \pm 2\text{mm}$ from the front - a horizontal line $2\text{cm} \pm 2\text{mm}$ from the front <u>AND</u> a vertical line $2\text{cm} \pm 2\text{mm}$ from the right wing - a horizontal line $2\text{cm} \pm 2\text{mm}$ from the front <u>AND</u> an intersecting arc radius $2\text{cm} \pm 2\text{mm}$ with centre on the right wing $2\text{cm} \pm 2\text{mm}$ from the front - Position of X indicated with <u>one</u> line (seen or implied) <u>within tolerance</u> and the other line (seen or implied) very slightly out of tolerance ($\approx \pm 4\text{mm}$, $\approx \pm 4^\circ$) B1 for appropriate sight of any one of the following: - unambiguous angle bisector between front and right wing $\pm 2^\circ$ - unambiguous horizontal line $2\text{cm} \pm 2\text{mm}$ from the front - unambiguous vertical line of length $2\text{cm} \pm 2\text{mm}$ that is $2\text{cm} \pm 2\text{mm}$ from the right wing - position of X indicated but both lines, seen or implied, slightly out of tolerance ($\approx \pm 4\text{mm}$, $\approx \pm 4^\circ$) - exactly two X positions marked, one X meeting both criteria and the other X meeting one criterion B0 for the following: - X meeting one criterion but no suitable line indicated - a vertical line of length 2cm from the front but not 2cm from the right, with X meeting one criterion
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8. (Repayment) 55×24 (£) 1320 (% Interest) $\frac{1320 - 500}{500} (\times 100)$ or $\frac{820}{500} (\times 100)$ or $\frac{1320}{500} (\times 100) - 1 (\times 100)$ 164 (%)	M1 A1 M1 A1	Must be as a complete unspoilt method FT 'their repayment' provided from a calculation including 55×24 Award M1 for complete method to show what percentage 820 is of 500 Mark final answer On FT 'their %' > 100, allow rounded or truncated so that it is accurate to a whole number If final M0A0, award SC1 for a final percentage of 264(%) from $\frac{1320}{500} \times 100$, or equivalent from $100 \times \text{'their repayment'} \div 500$ with required accuracy
9. (Tax at 10%) 0.1×8000 (= €800) AND (Tax at 20%) 0.2×2000 (= €400) (Total income tax) (€) 1200	M3 A1	Ignore £ or other currency for € M2 for any of the following: • (Tax at 10%) $0.1 \times (18\,000 - 10\,000)$ • (Tax at 10%) 0.1×8000 • (Tax at 20%) $0.2 \times (20\,000 - 18\,000)$ • (Tax at 20%) 0.2×2000 M1 for appropriate sight of either $(18\,000 - 10\,000 =) 8000$ or $(20\,000 - 18\,000 =) 2000$ CAO Ignore further calculation for net pay or overall percentage tax paid A0 for a final answers (€) 11 200 or (€) 21 200 (including personal allowance added, $10\,000 + 1200$ or gross pay added $20\,000 + 1200$)

11(a) $10 \times 280 \div 7$ or $3 \times 280 \div 7 + 280$ or $30 \times 280 \div 70 + 280$ or equivalent (£) 400	M2 A1	M1 for any one of the following: $280 \div 7$ (= £40) - appropriate sight of 40 (1% is) $280 \div 70$ (= £4) - appropriate sight of 4 $3 \times 280 \div 7$ (= £120) - appropriate sight of 120 (30% is) $30 \times 280 \div 70$ CAO If no marks, award SC1 for sight of $10 \times 280 \div 3$ (= £933.333...)
11(b) $660 \div 1.2$ or equivalent (£) 550	M1 A1	Allow M1 A1 for an answer of (£)550 provided not from incorrect working
12(a) 60 (kg)	B1	Answer space takes precedence
12(b) $\frac{1}{4} \times 500$ 125 (plants)	M1 A1	Answer space takes precedence If no marks, award SC1 for 375 (plants from $\frac{3}{4} \times 500$)
12(c) Roma AND interquartile range	B1	Answer spaces take precedence

13(b) 100 (bags)	B1	Allow an answer of $(1 \times) 10^2$ FT 'their (a)' $\div (1.5 \times 10^4)$ correctly evaluated, rounded up to a whole number of bags provided 'their (a)' $> 3 \times 10^4$ Allow FT from 'their (a)' as 'their final answer' using: either 'their final answer' expressed as digits or 'their final answer' in standard form
14. (Width of the door) $546 \div (\frac{1}{2} \times 3 \times 4)$ 91 (cm)	M2 A1	M1 for the area of the cross-section $\frac{1}{2} \times 3 \times 4 (= 6)$ CAO. Mark final answer If no marks, award SC2 for $(546 \div (3 \times 4) =) 45.5$ (cm) or SC1 for $546 \div (3 \times 4)$
15(a) 20 (minutes)	B1	Answer space takes precedence
15(b) 27 (customers)	B1	Answer space takes precedence
15(c) Appropriate sight of any of the following: (70% of 50 =) 35 (customers) AND (40 minutes is) 33 (customers) (30% not spent < 40 minutes is) 15 (customers) AND (> 40 minutes) 17 (customers) (70%) (35 customers is) 41 to 41.5 (minutes) ((40 mins) 33 customers is $33/50 \times 100 =$) 66% (>40 mins, 17 customers is $17/50 \times 100 =$) 34% Conclusion 'Aled is not correct'	B2 B1	B1 for any one of the following: (70% of 50 =) 35 (customers) (40 minutes is) 33 (customers) (30% not spent < 40 minutes is) 15 (customers) (> 40 minutes) 17 (customers) CAO from correct working only and B2 previously awarded If B2 B1 but an incorrect unit given, penalise –1, e.g. 15 minutes and 17 minutes, or 35 minutes and 33 minutes B2 B1 – 1 (2 marks)