# THE WEST AFRICAN EXAMINATIONS COUNCIL

## BECE 2026

# MATHEMATICS 2

## FINAL MARKING SCHEME

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# THE WEST AFRICAN EXAMINATIONS COUNCIL, ACCRA

## BASIC EDUCATION CERTIFICATE EXAMINATION FOR SCHOOL CANDIDATES, 2026

## FINAL MARKING SCHEME

## MATHEMATICS 2

| QUESTION NO. | SOLUTION | MARKS |
|---|---|---|
| 1. (a) (i) | Prime Numbers = $\{2, 3, 5, 7, 11\}$ any three | M1 for any three correct |
| | for all correct | A1 for all correct |
| (ii) | Numbers not prime = $\{1, 4, 6, 8, 9, 10\}$ | B1 for listing non-primes or 11-5=6 or listing of K |
| | $= 6$ or | B1 for 11 |
| | Probability (Number not prime) = $\frac{6}{11}$ | M1 A1 |
| (b) | $(x + y)(2m - n) - m(x + y)$ | M1 for factorising $(x + y)$ out |
| | $(x + y)(2m - n - m)$ at least one term correct | M1 for simplifying (at least one term correct) |
| | $(x + y)(m - n)$ | A1 for $(x + y)(m - n)$ |
| (c) | 8 sheets = GH¢68.00 | |
| | $= 35 - 8$ insist on 35-8 to get M1 | M1 for subtracting |
| | $= 27$ | A1 for 27 |
| | $=$ GH¢11.00 $\times$ 27 | M1 for multiplying by 11 |
| | = GH¢297.00 | A1 for GH¢297.00 |
| | Amount earned = GH¢68.00 + GH¢297 | M1 for adding |
| | = GH¢365.00 | A1 for GH¢365.00 |
| | -1ou/wu or 2dp once only | [15 marks] |

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| QUESTION NO. | SOLUTION | MARKS |
|---|---|---|
| 2. (a) (i) | $r + \begin{pmatrix}2\\5\end{pmatrix} = \begin{pmatrix}-3\\8\end{pmatrix}$ | M1 for correct equation or equivalent |
| | $r = \begin{pmatrix}-3\\8\end{pmatrix} - \begin{pmatrix}2\\5\end{pmatrix}$ | M1 for solving |
| | $r = \begin{pmatrix}-5\\3\end{pmatrix}$ | A1 for $\begin{pmatrix}-5\\3\end{pmatrix}$ |
| (ii) | Image = $r$ + point | |
| | $Q^1 = \begin{pmatrix}-5\\3\end{pmatrix} + \begin{pmatrix}-4\\-6\end{pmatrix}$ | M1 for correct equation or equivalent |
| | $Q^1 = \begin{pmatrix}-9\\-3\end{pmatrix}$ | A1 for $\begin{pmatrix}-9\\-3\end{pmatrix}$ |
| | $Q^1\ (-9, -3)$ Points must be in coordinate | A1 for $Q^1(-9, -3)$ |
| (b) | | |
| | Amount paid to Richard = $\frac{1}{3} \times$ GH¢9,000.00 | M1 for dividing by 3 |
| | = GH¢3,000.00 | A1 for GH¢3,000.00 |
| | Amount left = GH¢9000 – GH¢3,000 | |
| | = GH¢6000.00 | A1 for GH¢6,000.00 |
| | Ratio Joyce : Richard | |
| | 10 : 5 | |
| | 2 : 1 | |
| | Total parts = 3 | B1 for 3 or equivlent |
| | Joyce = $\frac{2}{3} \times$ GH¢6000 | M1 for $\frac{2}{3} \times$ GH¢6000 |
| | = GH¢4,000.00 | A1 for GH¢4,000.00 |
| | Richard = $\frac{1}{3} \times$ GH¢6000 | A1 for GH¢2,000.00 |
| | = GH¢2,000.00 | |
| | Amount received by Richard | |
| | = GH¢2,000.00 + GH¢3,000.00 | M1 for adding |
| | = GH¢5,000.00 | A1 for GH¢5,000.00 |
| | -1 ou/wu or 2dp once only | [15 Ma |

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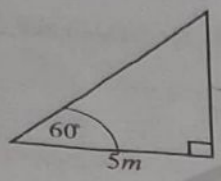
| QUESTION NO. | SOLUTION | MARKS |
|---|---|---|
| 3. (a) | $\frac{10}{100} \times GH¢25.00 = GH¢2.50$ | M1A1 |
| | Asana's new wage = GH¢25 + 2.50 | M1 |
| | = GH¢27.50 | A1 |
| | Asana's amount for 30 days = 27.50 × 30 | M1 for multiplying by 30 |
| | Asana's new pay = GH¢825.00 | A1 for GH¢825.00 |
| (b) (i) | Perimeter = $5m + 8m + 3m + 5m + (5m - 3m) + (8m - 5m)$ | M1 for $(5m - 3m)$ or $(8m - 5m)$ |
| | $= 26m$ | M1 adding all sides |
| | | A1 for $26m$ |
| (ii) | Area of the floor = $(8 \times 3)m^2 + (3 \times 2)m^2$ | M1 for $(8 \times 3)m^2$ or $(5 \times 3)m^2$ |
| | OR $(5\times3)m^2 + (5\times3)m^2$ | M1 for $(3 \times 2)m^2$ or $(5 \times 3)m^2$ |
| | $= 24m^2 + 6m^2$ or $15m^2 + 15m^2$ | M1 for adding |
| | $= 30m^2$ | A1 for $30m^2$ |
| (iii) | Cost of carpeting the floor | |
| | $= 30 \times 20$ | M1 for multiplying |
| | $= GH¢600.00$ | A1 for GH¢600.00 |
| | -1ou/wu or 2dp once only | [15 marks] |

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| QUESTION NO. | SOLUTION | MARKS |
|---|---|---|
| 4. (a) (i) | Aku's yearly income = 12 × 5000 | |
| | = GH¢60,000.00 | B1 for GH¢60,000.00 |
| (ii) | Brako's yearly income = 12 × GH¢6500 | M1 |
| | = GH¢6500 (10 + 2) | |
| | = GH¢65000 + GH¢13000 | |
| | = GH¢78,000.00 | A1 with evidence |
| | Dagadu's yearly income = GH¢4200 × 12 | M1 |
| | = 4200 × (10 + 2) | |
| | = 42,000 + 8,400 | |
| | = GH¢50,400.00 | A1 with evidence |
| | Income difference = GH¢60,000 – GH¢50,400 | |
| | = GH¢9,600.00 | B1 for GH¢9,600.00 |
| (iii) | Total yearly income = GH¢60,000.00 | |
| | + GH¢78,000.00 | M1 for adding candidate's income |
| | GH¢50,400.00 | |
| | GH¢188,400.00 | A1 for GH¢188,400.00 |

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| QUESTION NO. | SOLUTION | MARKS |
|---|---|---|
| 4. (b) (i) |   for diagram (-½ ee). if No diagram everything is wrong | **B1 for diagram** $\frac{-1}{2}$ **ee (60°, 5m)** |
| (ii) (α) | Length of ladder $= \frac{5}{\cos 60°}$ $\cos 60 = \frac{5}{\text{Length of ladder}}$ other alternative | **M1 for correct trigonometry ratio** |
| | $= \frac{5}{1/2}$ | **M1 for simplifying** |
| | $= 10.0m$ | **A1 for 10.0$m$** |
| (β) | $h = 5 \tan 60°$ $\tan 60 = \frac{h}{5}$ (other formula) | **M1 for correct trigonometry ratio** |
| | $= 5 \times 1.732$ | **M1 for multiplying** |
| | $= 8.66$ | |
| | $= 8.7m$ No evidence is needed. | **A1 for 8.7$m$** |
| | **-1ou/wu once only** | **[15 Marks]** |

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| QUESTION NO. | SOLUTION | MARKS |
|---|---|---|
| 5. (a) | $= \frac{6\sqrt{2}}{3\sqrt{2}-2\sqrt{3}}$ | M1 for reducing any surd to basic form |
| | $= \frac{6\sqrt{2}(3\sqrt{2}+2\sqrt{3})}{(3\sqrt{2}-2\sqrt{3})(3\sqrt{2}+2\sqrt{3})}$ | M1 for rationalizing |
| | $= \frac{18(\sqrt{2})^2+12\sqrt{2}(\sqrt{3})}{18-12}$ | M1 for any one term correct for numerator or denominator |
| | $= \frac{18(2)+12\sqrt{6}}{6}$ | |
| | $= \frac{36}{6}+\frac{12\sqrt{6}}{6}$ | M1 for dividing by 6 |
| | $= 6+2\sqrt{6}$ | A1 for $6+2\sqrt{6}$ |
| (b) | $\frac{1}{2}(2x+1) \geq \frac{1}{3}x+1\frac{9}{10}$ | |
| | $\frac{1}{2}(2x+1) \geq \frac{1}{3}x+\frac{19}{10}$ | B1 for $\frac{19}{10}$ |
| | $15(2x+1) \geq 10x+3(19)$ | M1 for clearing fractions |
| | $30x+15 \geq 10+57$ | M1 for correct expansion |
| | $30x-10x \geq 57-15$ | M1 for solving |
| | $20x \geq 42$ | |
| | $x \geq \frac{42}{20}$ | |
| | $x \geq 2\frac{1}{10}$ accept $\frac{21}{10}$ or 2.1 | A1 for $x \geq 2\frac{1}{10}$ / $\frac{21}{10}$ / 2.1 |
| (c) | Circular Track $= 2\pi r$ | |
| | $= 2 \times \frac{22}{7} \times 70$ | M1 for correct substitution |
| | $= 44 \times 10$ | M1 for simplifying |
| | $= 440m$ | A1 for $440m$ |
| | $4\ times = 4(440)$ | M1 for multiplying by 4 |
| | $= 1760m$ | A1 for $1760m$ |
| | | [15 Marks] |



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| QUESTION NO. | SOLUTION | MARKS |
|---|---|---|
| 6. (a) | | |

| Shoe size ($x$) | Tally | Frequency ($f$) | $fx$ |
|---|---|---|---|
| 4 | 𝍸 \| \| | 7 | 28 |
| 5 | 𝍸 𝍸 \| | 10 | 50 |
| 6 | 𝍸 \| \| \| | 8 | 48 |
| 7 | 𝍸 \| | 5 | 35 |
| | | $\Sigma f = 30$ | $\Sigma fx = 161$ |

B1 for Tally (any two correct)
M1 for any two frequency correct (any two correct)
A1 for all frequuencies correct
M1 for any $f(x)$ correct (any one correct)
A1 for all correct
B1 for $\Sigma f = 30$
M1 adding $fx$'s
A1 for 161

(b) (i) Shoe size 5 — B1 for 5

(ii) There are more, many, large learners with shoe size 5 — B1 for any of the words (more, many or large) correct

(iii) Shoe size 7 — B1 for 7

(iv) There are less or small number of learners with shoe size 7. — B1 for any of the words (less, small) or equivalent

(c) Mean $= \frac{161}{30}$ — M1

$= 5.367$ — M1 for simplifying with evidence

$= 5$ — A1 for 5

**[15 Marks]**

1. 15/05/2026
2. 15/5/26
3. 15/5/2026
4. 15/5/2026

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