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# **GCSE MARKING SCHEME**

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**AUTUMN 2018**

**GCSE  
MATHEMATICS  
UNIT 1 - FOUNDATION TIER  
3300U10-1**

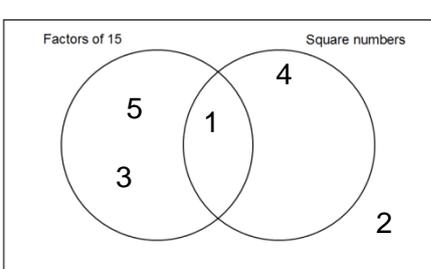
## **INTRODUCTION**

This marking scheme was used by WJEC for the 2018 examination. It was finalised after detailed discussion at examiners' conferences by all the examiners involved in the assessment. The conference was held shortly after the paper was taken so that reference could be made to the full range of candidates' responses, with photocopied scripts forming the basis of discussion. The aim of the conference was to ensure that the marking scheme was interpreted and applied in the same way by all examiners.

It is hoped that this information will be of assistance to centres but it is recognised at the same time that, without the benefit of participation in the examiners' conference, teachers may have different views on certain matters of detail or interpretation.

WJEC regrets that it cannot enter into any discussion or correspondence about this marking scheme.



|  |                    |   |
|--|--------------------|---|
| 7.(a) 3·12 (m)   | B1                 |   |
| 7.(b) 9070 (m)   | B1                 |   |
| 8.(a) 3  | B1                 |   |
| 8.(b)(i)<br>  | B1                 | A should be between 1/2 and 3/4 exclusive.<br>B0 if no labels.  |
| 8.(b)(ii)<br> | B1                 | B should be between 1/8 and 3/8 exclusive.<br>Award B1 if no labels and both marks are positioned correctly.<br>[A should be between 1/2 and 3/4 exclusive.]  |
| 9.(a) 3.6  | B1                 |   |
| 9.(b) 25.9   | B1                 |   |
| 10. (£) 0·15 × 600 oe OR 320 ÷ 4 OR 80<br>(Larger amount is £) 90 AND sight of (£)80           | M1<br>A2           | Accept 15/100 × 600 but not 15% × 600 unless correctly evaluated<br>A1 for sight of (£)90.<br>Accept '15% of £600' on answer line, provided (£)90 seen.   |
| 11.<br>Sight of 60(°) or 90(°)<br><br>180(°) – [60(°) + 90(°)] OR 90(°) – 60(°)<br>30(°)       | B1<br><br>M1<br>A1 | Answers may be seen on the diagram.<br>Not as final answer for x or incorrectly labelled on diagram.<br>FT 'their derived 60(°) or 90(°)' if B1 awarded<br>CAO<br>Answer of x = 30(°) with no working gets 3 marks. |
| 12.<br>     | B2                 | B2 for all fully correct.<br>Award B1 for three or four correct.<br><i>Any duplicates are marked as incorrect.</i><br><i>Ignore any numbers other than 1-5.</i>   |
| 13. 3 2  | B2                 | B1 for each   |

|            |  |                          |  |
|------------|--|--------------------------|--|
| 14.(a)     | $8x - 6y$ or $2(4x - 3y)$  | B2                       | Must be in an expression for B2.<br>B1 for sight of $(+)8x$ or $-6y$ .<br>B1 for $8x + -6y$<br>Mark final answer.  |
| 14.(b)     | $2m = 19$<br>$m = 9\frac{1}{2}$ or $19/2$ or $9.5$   | B1<br>B1                 | FT from $2m = k$ .<br>Accept $m = k/2$ (but, if on FT $k$ is even, final answer must be given as a whole number.)<br>B0 for '9 rem 1'.<br>Mark final answer.<br>Allow 2 marks for embedded answer BUT only 1 mark if contradicted by $m \neq 9\frac{1}{2}$ . |
| 14.(c)     | 1  | B2                       | B1 for sight of $-20$ or sight of $(+) 21$ . But not $- 20f$ $(+) 21g$ .<br>Mark final answer.   |
| 15.(a)     | Correct scale drawing<br><br>$BAC = 55^\circ$<br>AB = 6cm AND AC = 8cm AND triangle drawn  | B1<br>B2                 | Allow tolerance of $\pm 2\text{mm}$ and $\pm 2^\circ$ .<br><br>Labelling need not be shown if vertices can be unambiguously identified.<br><br>B1 for AB = 6cm OR AC = 8cm.  |
| 15.(b)     | Length of 'their BC' $\times 3$<br><br>$= 20.1$  | M1<br>A1                 | Allow tolerance of $\pm 2\text{mm}$ for 'their BC'.<br><br>FT from 'their BC'.<br>ISW if correct evaluation <u>seen</u> (eg 20.1 rounded to 20)<br>If <u>no attempt</u> at 15(a) then allow SC1 for an answer between 10.2 and 11.4 inclusive.               |
| 16.        | $x + 7 + 8 = 18$ or equivalent.<br>$x = 3$<br><br>(Area =) $6 \times (3 + 2)$<br><br>$= 30(\text{cm}^2)$                                       | M1<br>A1<br><br>M1<br>A1 | May be seen on the diagram<br>OR implied by $3 + 7 + 8 (= 18)$ for M1 A1.<br><br>F.T. 'their derived or stated value for $x$ '.  |
| 17.(a)     | $\frac{60 \times 300}{2000}$ OR $\frac{59 \times 300}{2000}$ OR $\frac{60 \times 301}{2000}$<br>$= 9$ $= 8.85$ or $8.9$ or $9$ $= 9.03$ or $9$ | M1<br>A1                 | Must be seen. M0 for exact calculation.<br>Do not accept any other approximated values.<br>Unsupported answer is M0A0.   |
| 17.(b)(i)  | 19.437   | B1                       |  |
| 17.(b)(ii) | 34.1   | B1                       | Allow 34.10  |

