



GCSE MARKING SCHEME

AUTUMN 2021

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

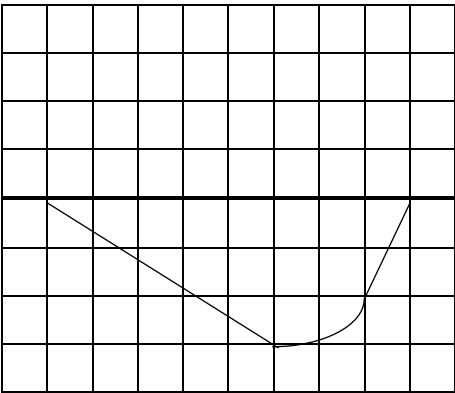
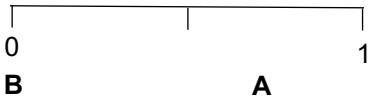
INTRODUCTION

This marking scheme was used by WJEC for the 2021 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.

WJEC GCSE MATHEMATICS
AUTUMN 2021 MARK SCHEME

Unit 1: Foundation Tier	Mark	Comments
1.(a) Ninety-five thousand and forty-eight	B1	
1.(b) 931	B1	
1.(c) 1250	B1	
1.(d) 208	B1	
1.(e) 1,2,3,6,9,18	B2	B1 for 4 or 5 correct and 0 incorrect B1 for 5 or 6 correct and 1 incorrect Ignore repeated numbers Accept products 1×18 , 2×9 , 3×6
2.(a) 94 (mm)	B1	Accept 92 to 96 (mm)
2.(b) $136(^{\circ})$	B1	Accept 134 to 138 ($^{\circ}$)
3.(a) 16	B1	
3.(b) $\frac{3}{4}$	B1	Mark final answer.
3.(c) 28	B1	
4. 	B2	B1 for correct longer straight line. B1 for correct curve AND shorter straight line. The lines must pass through the correct points.
5.(a) 4.3×1000 4300 (g)	M1 A1	
5.(b) $3 \times 100 \div 6$ 50 (cm)	M1 A1	If M0 A0, award SC1 for sight of 300(cm) or 0.5(m).
6. 	B1 B1	A should be between 0.6 and 0.8 B should be at 0

7.		B2	B1 for 2 correct answers and 1 incorrect answer B1 for 1 correct answer and 1 incorrect answer B1 for 1 correct answer and 0 incorrect answer
8. Use of $360(^{\circ})$, e.g. $8x = 360(^{\circ})$ ($x =$) $360/8(^{\circ})$ ($x =$) $45(^{\circ})$		B1 M1 A1	M1 implies B1 If B0 M0 A0, award SC1 for $x = 22.5(^{\circ})$ from accurate working from $8x = 180(^{\circ})$
9. (Perimeter of rectangle $=$) $15+15+7+7$ $= 44$ (cm) (Length of side of square $=$) $44 \div 4$ (cm) 11 (cm)		M1 A1 M1 A1	FT 'their stated 44', but not 15 or 7.
9. OCW Organisation and Communication		OC1	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 explanation and working in a way that is clear and logical - write a conclusion that draws together their results and explains what their answer means
Accuracy of Writing		W1	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
10.(a) ($x =$) $180 - 90 - 37$ or equivalent. $= 53(^{\circ})$		M1 A1	
10.(b) ($a =$) $51(^{\circ})$ ($b =$) $360 - (51 + 82 + 153)$ or equivalent. $= 74(^{\circ})$		B1 M1 A1	FT 'their 51', i.e. $125 -$ 'their 51' provided 'their 51' < 125 .
11.(a) $\frac{1}{9}$		B1	
11.(b) 0.016		B1	
11.(c) 0.015		B1	
12.(a) $\frac{1}{10}$ or 0.1		B1	Mark final answer.
12.(b) Sight of 27 AND 4 ($27 \div 4 =$) 6.75		B1 B1	FT if at least 27 or 4 correct and of equivalent difficulty (i.e. <u>not</u> leading to a whole number answer). Answer must be a decimal
13. (Volume $=$) $5 \times 3 \times 2$ $= 30$ (cm ³)		M1 A1	Any additional calculation e.g. $30 \div 2 = 15$ is M0.

