

Bronze Level

Mark Scheme 1

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Difficulty Level	Bronze
Booklet	Mark Scheme 1

Time Allowed: 60 minutes

Score: /50

Percentage: /100

Grade Boundaries:

9	8	7	6	5	4	3	2	1
>95%	85%	75%	65%	55%	45%	35%	25%	<25%

Question Number	Working	Answer	Mark	Notes
1. (a)	$\frac{24.1}{0.6} - 38.44 = 40.166... - 38.44$		2	M1 for 0.6 or $\frac{3}{5}$ or 40.166... (4 figures correct rounded or truncated) or $40\frac{1}{6}$ or 38.44 or $38\frac{11}{25}$
		1.726666667		A1 Accept if first 4 figures correct (rounded or truncated) Also accept 1.726 or $\frac{259}{150}$ or $1\frac{109}{150}$
(b)		1.73	1	B1 ft from (a) if answer to (a) is a decimal with more than 3 sf
Total 3 marks				
Question Number	Working	Answer	Mark	Notes
2 .	$(5 - 2) \times 180$ or 3×180 or $(2 \times 5 - 4) \times 90$ or 6×90 or $360 + 180$		4	M1 (alternative method) 360-(83+66+53+96) Condone 1 incorrect ext angle
	540			A1 540 seen scores M1A1 62
	“540” - (97 + 114 + 127 + 84)			M1 dep on first M1 180 - “62”
		118		A1 cao
Total 4 marks				

Question Number	Working	Answer	Mark	Notes
3. (a)		$w(w - 9)$	2	B2 Award B2 also for $(w \pm 0)(w - 9)$ B1 for factors which, when expanded & simplified, give two terms, one of which is correct except B0 for $(w + 3)(w - 3)$ SC B1 for $w(w - 9w)$
(b)	$3x = -6$ or $3x = 1 - 7$ or $5x - 2x = -6$ oe		3	M2 for correct rearrangement with x terms on one side and numbers on the other AND correct collection of terms on at least one side M1 for $5x - 2x = 1 - 7$ oe ie correct rearrangement with x terms on one side and numbers on the other
		-2		A1 cao dep on M2
(c)	$y^2 + 3y - 7y - 21$		2	M1 for 3 correct terms out of 4 or for 4 correct terms ignoring signs or for $y^2 - 4y + n$ for any non-zero value of n
		$y^2 - 4y - 21$		A1 cao
				Total 7 marks

Question Number	Working	Answer	Mark	Notes
4. (a)	$1 - (0.6 + 0.3)$		2	M1
		0.1		A1 Also accept $\frac{1}{10}$ or 10%
(b)	30×0.6		2	M1
		18		A1 cao Do not accept $\frac{18}{30}$
				Total 4 marks

Question Number	Working	Answer	Mark	Notes
5.	$\frac{10}{12}$ and $\frac{9}{12}$ eg $\frac{10-9}{12}$, $\frac{10}{12} - \frac{9}{12}$		2	B2 B1 for $\frac{10}{12}$ or $\frac{9}{12}$ Also accept $\frac{5 \times 2}{6 \times 2}$ or $\frac{3 \times 3}{4 \times 3}$
				Alternative method B1 for both fractions correctly expressed as equivalent fractions with denominators that are common multiples of 6 and 4 eg $\frac{20}{24}$ and $\frac{18}{24}$ or $\frac{5 \times 4}{6 \times 4}$ and $\frac{3 \times 6}{4 \times 6}$ B1 (dep on first B1) for evaluation as a correct fraction which is equivalent to $\frac{1}{12}$ eg $\frac{2}{24}$
				SC B1 for multiplying both sides by 12 ie $10 - 9 = 1$
				Total 2 marks

Question Number	Working	Answer	Mark	Notes		
6. (a)		Rotation	3	B1	Accept 'rotate', 'rotated' etc	These marks are independent but award no marks if the answer is not a single transformation
		90° clockwise		B1	Also accept quarter turn clockwise, -90° or 270°	
		(0, 0)		B1	Also accept origin, O	
(b)	vertices (4,4), (4,2), (5,2)	R correct	2	B2	Condone omission of label B1 for 2 correct vertices	
				Total 5 marks		

Question Number	Working	Answer	Mark	Notes	
7.	3+5+7 or 15		3	M1	15 may be denominator of fraction or coefficient in an equation such as $15x = 90$
	$90 \div (3+5+7)$ or $90 \div "15"$ or 6 or $\frac{7}{15}$ oe			M1	dep
		42		A1	Also award for 18 : 30 : 42
				Total 3 marks	

Question Number	Working	Answer	Mark	Notes		
8. (i)		3, 5, 7, 11	2	B1	cao	Brackets not necessary
	(ii)	2, 3, 5, 7, 9, 11		B1	cao (B0 if 3 or 5 or 7 or 11 repeated)	
				Total 2 marks		

Question Number	Working	Answer	Mark	Notes
9.		$C = \frac{3d+7}{2}$ oe	3	B3 B2 for $\frac{3d+7}{2}$ oe B2 for $C = 3d + 7 \div 2$ oe B1 for $3d + 7 \div 2$ B1 for $C =$ linear expression in d
				Total 3 marks

Question Number	Working	Answer	Mark	Notes
10. (a)	$\frac{BC}{5.2} = \frac{9}{6}$ oe		2	M1 for correct, relevant proportionality statement with 3 values substituted
		7.8		A1 cao
(b)	$\frac{CE}{7.2} = \frac{6}{9}$ oe or $\frac{CE}{6} = \frac{7.2}{9}$ oe or $\frac{CE}{7.2} = \frac{5.2}{"7.8"}$ oe or $\frac{CE}{5.2} = \frac{7.2}{"7.8"}$ oe		2	M1 for correct, relevant proportionality statement with 3 values substituted
		4.8		A1 cao
				Total 4 marks

Question	Working	Answer	Mark	Notes
11.	$15/100 \times 640 (=96)$ 640 – “96”	544	3	M1 M1 dep or M2 for 640×0.85 A1
Total 3 marks				

12.	(a) $120 - 90 (=30)$	$30/120$ oe	2	M1 or $1 - 90/120$ A1
	(b) “30/120” X 200 oe	50	2	M1 ft or $200 - “90/120” \times 200$ (i.e. $200 - “heads”/120 \times 200$) A1 ft ft if final ans < 200
Total 4 marks				

13.	$15 \div 6 (=2.5)$ or $6 \div 15 (=0.4)$ or $230 \div 6 (=38.33)$ or $200 \div 6 (=33.33)$ or $6 \div 230 (=0.026)$ or $6 \div 200 (=0.03)$ $230 \times “15/6”$ or $200 \times “15/6”$ oe	apples = 575 & raspberries = 500	3	M1 M1 dep (i.e “correct” calculation for apples OR raspberries) A1 cao both correct SC M1M1A0 if answers wrong way round with/without working
Total 3 marks				

14	$72 \div 1\frac{1}{3}$ oe	54	3	B1M1 accept $72 \div 1.33$ (2dp or better) or 0.9×60 (B1 M0 for $72 \div 1.2(0)\{=60\}$ or $72 \div 80 \{=0.9\}$ or $72 \div 1.3 \{=55.4$ or better}) or $72000 \div 1.33$ (or better) A1 cao
Total 3 marks				