



**General Certificate of Secondary Education
Practice Paper
Set 3**

Mathematics (Linear) B

Paper 2 Foundation Tier 43652F

Mark Scheme

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Glossary for Mark Schemes

GCSE examinations are marked in such a way as to award positive achievement wherever possible. Thus, for GCSE Mathematics papers, marks are awarded under various categories.

- M** Method marks are awarded for a correct method which could lead to a correct answer.
- A** Accuracy marks are awarded when following on from a correct method. It is not necessary to always see the method. This can be implied.
- B** Marks awarded independent of method.
- Q** Marks awarded for quality of written communication. (QWC)
- M Dep** A method mark dependent on a previous method mark being awarded.
- B Dep** A mark that can only be awarded if a previous independent mark has been awarded.
- ft** Follow through marks. Marks awarded following a mistake in an earlier step.
- SC** Special case. Marks awarded within the scheme for a common misinterpretation which has some mathematical worth.
- oe** Or equivalent. Accept answers that are equivalent.
eg, accept 0.5 as well as $\frac{1}{2}$

Paper 2 Foundation Tier

Q	Answer	Mark	Comments
1(a)	20×9	M1	
	180	A1	
*1(b)	9×1.5	M1	
	13.50	Q1	Strand (i) correct notation 13.5 is M1, Q0
2(a)	Walk  Bus  Car 	M1	Allow one error
	Walk  Bus  Car 	A1	Use of five
	6 5 4	B1 ft	ft Their tallies
*2(b)	Walk ○ ○ ○ Bus ○ ○ + $\frac{1}{2}$ Car ○ ○	M1	At least one correct row
	Walk ○ ○ ○ Bus ○ ○ + $\frac{1}{2}$ Car ○ ○	Q1	Strand (ii) for correct alignment
3(a)	34	B1	Allow [33, 35]
3(b)	26	B1 ft	

Q	Answer	Mark	Comments
4(a)	8, 12, 16, 20 or + 4 seen	M1	
	24	A1	
4(b)	False True True False	B4	B1 For each
5(a)	£ 160.00	B1	
	£ 290.00	B1 ft	ft Their £ 160 + 130
5(b)	Credit	B1	
	£ 75	A1	
6	Attempt to count squares	M1	eg, at least up to 20
	[40, 50]	A1	
	cm ²	B1	
7(a)	One correct trial using 3, 4 and 8	M1	$34 \times 8 = 272$ $38 \times 4 = 152$ $43 \times 8 = 344$ $48 \times 3 = 144$ $83 \times 4 = 332$ $84 \times 3 = 252$
	43×8	A1	
	344	B1 ft	ft Their answer
7(b)	One correct trial using 3, 4 and 8	M1	$34 \div 8 = 4.25$ $38 \div 4 = 9.5$ $43 \div 8 = 5.375$ $48 \div 3 = 16$ $83 \div 4 = 20.75$ $84 \div 3 = 28$
	$84 \div 3$	A1	

Q	Answer	Mark	Comments
8	2.85...	B1	
	2.9	B1 ft	
*9	1000 ÷ 46 = 21.7 ... or 1000 ÷ 36 = 27.7 ...	M1	
	27 and 21 seen	Q1	Strand (i) Correct rounding down
	Their 27 – their 21	M1	
	6	A1ft	
10	Correct method seen eg $\frac{360}{1080} \times 630$ or $630 \div 3$ or $630 \times \frac{1}{3}$	M1	or one correct sector on diagram with correct label
	3 correct angles seen 210°, 60°, 90°	A1	
	All 3 sectors drawn correctly	A1	± 2°
	All 3 sectors labelled in correct proportion of size	B1	
11(a)	15	B1	Need not be accurate
11(b)	Net of a cuboid	B2	B1 For net with 4 or 5 faces
12(a)	52 × 2.5(4)	M1	
	130	A1	Accept [130, 133]
12(b)	165 ÷ 2.2	M1	
	75	A1	SC1 For 82.5
13(a)	$3 \times 5 (+) 2 \times 4 (+) 4 \times \frac{1}{2}$	M1	
	15 + 8 + 2	M1	Allow one error
	25	A1	
13(b)	3	B1	

Q	Answer	Mark	Comments
14(a)	$4a + 2a + a$	M1	oe
	$7a$	A1	
14(b)	$7a = 21$ or $21 \div 7$	M1	
	3	A1	
15	A on 5 sections B on 2 sections C on 1 section	B2	Any order B1 For one C B1 For 2As and 1B
16(a)	2.4	B1	
16(b)	165	B2	B1 For 825 or 55 seen
17	At least one trial	M1	eg, $3 \times 1 + 15 = 18$
	One correct pair	A1	eg, $a = 1, b = 17$
	Second correct pair	A1	$a = 2, b = 14$ $a = 3, b = 11$ $a = 4, b = 8$ $a = 5, b = 5$ $a = 6, b = 2$
18	(£) 3 seen	M1	
	(£) 4.50 or (£) 2.25 seen	M1	(£) $3 - (£) 1.50 = (£) 1.50$
	75p	A1	

Q	Answer	Mark	Comments
19(a)	4 5 6	B2	B1 For no more than 3 errors
	6 8 10 12		
	6 9 12 15 18		
	4 8 12 16 20		
	5 10 15 20		
	6 12 18		
19(b)	17 or 36 seen	M1	
	$\frac{17}{36}$	A1	
19(c)	Prime numbers identified	M1	ie 2, 2, 3, 3, 5
	$\frac{6}{36}$	A1	oe
20	$12 \div 2$ or 6 cm seen	M1	
	$12 \div 3$ or 4 cm or 8 cm seen	M1	
	8×6	M1	
	48	A1	
21(a)	0, 2, 4, 6	B2	B1 for 2 or 3 correct
		M1	$\frac{(0 + 2 + 4 + 6)}{4}$
		A1	(Mean =)3
	5	A1	(Median =)3
21(b)	$x - 1 = 10$ or $x = 11$ seen	M1	$x - 1 = 10$ or $x + \quad = 10$?
	$3x = 9$ and $x^2 = 9$ seen	A1	11, 3, 2.5, 3 any 2 correct
	$x = 3$	A1	

Q	Answer	Mark	Comments
22(a)	Correct reflection drawn	B2	B1 For any reflection drawn
22(b)	Correct translation	B2	B1 For translation 3 units left or translation 2 units down
23(a)	$\frac{30}{100} \times 360 (=180)$	M1	oe 70% seen
	360 – their 108 (=252)	M1	$\frac{70}{100} \times 360$
	Their 252 – 200	M1	
	52	A1	
23(b)	$40 + 65 + 95 (= 200)$	M1	
	$\frac{40}{\text{their } 200} \times 100$	M1	oe
	20 (%)	A1	
24(a)	$\frac{1}{2} (6 + 12) 7$	M1	oe
	$\frac{1}{2} (6 + 12) 7 \times 90$	M1 dep	oe
	5670	A1	
24(b)	Their 5670×2.3	M1	
	13041	A1	
	13	B1ft	ft their grams
25	$75^2 + 38^2$	M1	
	$\sqrt{75^2 + 38^2}$	M1 dep	
	84(.077 ...)	A1	
	Their 84×12.5	M1	
	1050(.966 ...)	A1	Allow [1050, 1062.5]