



**General Certificate of Secondary Education
Practice Paper
Set 1**

**Mathematics (Linear) B
Paper 1
Foundation Tier**

4365

Mark Scheme

Mark Schemes

Principal Examiners have prepared these mark schemes for practice papers. These mark schemes have not, therefore, been through the normal process of standardising that would take place for live papers.

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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.
- 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 $\frac{1}{2}$

Q	Answer	Mark	Comments
1 (a)	218	B1	
1 (b)	134	B1	
1 (c)	65	B1	
1 (d)	32	B1	
2 (a)	Three thousand, six hundred (and) forty two	B1	
2 (b)	3600	B1	
2 (c)	5000 – 3642	M1	
	1358	A1	
3 (a)	Correct plots	B2	B1 for either B1 if both plotted with co-ordinates wrong way round
3 (b)	6.6 - 6.8	B1ft	ft their points
3 (c)	(4, 3)	B1ft	ft their points Allow fractional or decimals if $y = 2x - 5$ and nearer A than B

Q	Answer	Mark	Comments
4 (a)	Bars of equal width (either 'joined' or separate) or vertical lines spaced out (not necessarily equally) or a line graph, with points joined with a dotted line	B1	
	Height correct	B1	
	Horizontal axis correctly labelled	B1	
4 (b)(i)	5	B1	
4 (b)(ii)	$(8 + 6 + 5 + 4 + 3 + 4) \div 6$	M1	Condone missing brackets
	5	A1	
4 (c)	Range is smaller after new system	B1	oe
	Mean is lower after new system	B1	oe
5	$1 + 1 + 1 + 1 + 1 + 1$ $1 + 1 + 1 + 1 + 2$ $1 + 1 + 2 + 2$ $2 + 2 + 2$ $1 + 5$	B2	B1 for 3 or 4 correct
6 (a)	Acute	B1	

Q	Answer	Mark	Comments
6 (b)	Angle $70^\circ \pm 2^\circ$	B1	
	Line BC $4.5 \text{ cm} \pm 1 \text{ mm}$ and complete triangle	B1	
7 (a)	$\frac{6}{16}$	B1	
	$\frac{3}{8}$	B1	
7 (b)	Evidence of counting	M1	
	8	A1	Accept 7.5 SC1 for 7 or 9
*8 (a)	6×90	M1	
	540	A1	
	5.40	Q1	Strand (i) 5.4 is Q0
*8 (b)	Any attempt to find cost for at least 100 eg 2×285 or 10×60	M1	
	Correctly evaluates a combination that involves minibuses and coaches	A1	
	1 coach and 4 minibuses	A1	
	Works out cost for at least a 100 people and then tries at least 2 combinations of minibuses and coaches for at least a 100 people	Q1	Strand (iii)

Q	Answer	Mark	Comments
9 (a)	Triangular prism	B1	
9 (b)(i)	2×5 or 10 seen, or 6×5 or 30 seen	B1	
	2×1.7 or 3.4 seen	B1	
	33.4	B1ft	ft for 2 marks maximum if either B1 awarded and an attempt to multiply relevant values by 3 or 2 made
9 (b)(ii)	1.7×5	M1	
	8.5	A1	
10	$60 \div 2$ or 3×60	M1	
	90	A1	
	45	B1ft	ft 50% of their 90
*11	Median set A = 5	M1	
	6 given values Set B in order 2 4 5 7 8 9	A1	
	Any value less than 5 except 2 or 4	A1	
	Set A in order, median $(4 + 6)/2$ (= 5) Set B in order, value identified	Q1	Strand (ii)
12 (a)	$4x$	B1	

Q	Answer	Mark	Comments
12 (b)	3	B1	
12 (c)	Two correct lines joining Equation to $3x + 2 = 11$ and Formula to $V = lbw$	B1	
13	7, 10, 13, 16 etc (at least 3 seen)	M1	Can be given as times in 24 or 12 h clock
	8, 12, 16, 20 (at least 3 seen)	M1	Can be given as times in 24 or 12 h clock
	4 pm and 4 am	A1	Can be given as times in 24 or 12 h clock
14	20 girls horse riding	B1	
	16 boys rock climbing	B1	
	12 boys archery	B1	
	70 or 32 and 38	B1ft	ft their values if 2 correct
	35	B1ft	ft their values if 2 correct
15 (a)	50:30:20	M1	
	5:3:2	A1	
15 (b)	8:3:4	B2	B1 for 4:1.5:2 or equivalent
16	$1\frac{3}{4} - \frac{5}{6}$ $1\frac{3}{4} - 5/6$	M1	
	$\frac{21}{12} - \frac{10}{12}$ $21/12 - 10/12$	M1	Common denominator of 12 and at least one numerator correct
	$\frac{11}{12}$ 11/12	A1	SC2 31/12 oe

Q	Answer	Mark	Comments
16 Alt	Multiplying by 12	M1	
	$10 + 12d = 21$	M1	
	$\frac{11}{12}$ 11/12	A1	SC2 31/12 oe
17	10	B1	
	$360 \div 10$	M1	
	Colin ticked and 36	A1	
17 Alt	10	B1	
	States that 10 sides must be smaller than (5) sided	M1	
	Colin ticked and $72 \div 2$ smaller than 72×2	A1	