



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

**Mathematics (Linear) B
Paper 2
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	Centimetres and inches	B4	B3 for 6 or 7 correct B2 for 3, 4 or 5 correct B1 for 1 or 2 correct
	Kilograms and pounds		
	Litres and pints		
	Kilometres and miles		
2	No and valid reason	B2	eg She should only double the 1 It should be $\frac{2}{4}$ B1 for No and attempt at reason
3 (a)(i)	Trapezium	B1	
3 (a)(ii)	Trapezium drawn	B1ft	ft their (a)(i)
3 (b)	Hexagon drawn	B1	
4 (a)	2	B1	
4 (b)	$\frac{5}{20}$	M1	ft their key
	$\frac{1}{4}$	A1ft	
4 (c)	Train	B1	
5 (a)	34.7964	B1	
5 (b)	34.8	B1ft	
6 (a)	300	B1	
6 (b)	550 – their 300	M1	
	250	A1ft	
6 (c)	1500 seen or implied	M1	Values with a sum of 1.5 where each value is less than or equal to 0.8
	Values with a sum of 1500	A1	Each value must be less than or equal to 800 and must be in grams
6 (d)	0.5×1000 or 500	M1	
	580	A1	

Q	Answer	Mark	Comments									
7 (a)	84×1.2	M1	oe									
	100.80	Q1	Strand (i) 100.8 implies M1									
7 (b)	Trousers, Dress	B2	B1 for 1 correct (and 1 incorrect)									
8 (a)	97632	B1										
8 (b)	$\begin{array}{r} 7\ 6\ (3) + 9\ 2 \\ \text{or} \\ 7\ 9\ (3) + 6\ 2 \end{array}$	B2	B1 for either 7 or 2 in correct place SC1 for a correct total of a 3-digit + 2-digit									
8 (c)	$6\ 7\ (3) - 9\ 2$	B2	B1 for either 2 or 6 in correct place SC1 for a correct subtraction of a 3-digit – 2-digit									
9 (a)	<table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td></td> <td>0.75</td> <td>75(%)</td> </tr> <tr> <td>$\frac{73}{100}$</td> <td></td> <td>73(%)</td> </tr> <tr> <td>$\frac{74}{100}$</td> <td>0.74</td> <td></td> </tr> </tbody> </table>		0.75	75(%)	$\frac{73}{100}$		73(%)	$\frac{74}{100}$	0.74		B4	B3 for 4 or 5 correct B2 for 2 or 3 correct B1 for 1 correct
	0.75	75(%)										
$\frac{73}{100}$		73(%)										
$\frac{74}{100}$	0.74											
9 (b)	0.73, 74(%) $\frac{3}{4}$	B1	oe any form									
10 (a)	90	B2	B1 for any two digit multiple of 9 B1 for any even two digit number									
10 (b)	729	B2	B1 for any cube number greater than 1 seen									
11	Either odd or even	B3	B2 for 2 or 3 correct B1 for 1 correct									
	Always even											
	Either odd or even											
	Either odd or even											

Q	Answer	Mark	Comments
12	9 am – 25 minutes or 8:35	M1	20 + 25 or 45 or 8.15 seen
	Sight of 8:10	M1	
	7:55	A1	
13 (a)(i)	$(10 -) 4 \times 1.37$	M1	
	4.52	A1	
13 (a)(ii)	£2, £2, 50p, 2p	B2ft	B1 for any combination with at a total of £4.52
13 (b)(i)	$4 \times 300 (= 1200)$ or 4×0.3	M1	
	1.2	A1	SC1 for 0.3 seen
13 (b)(ii)	8×8	M1	
	64	A1	
	$960 \div \text{their } 64$	M1dep	
	15	A1	
14 (a)(i)	$a + b + c = 180(^{\circ})$	B1	
14 (a)(ii)	Angles make two triangles	M1	
	2×180	A1	
14 (b)	$180 - 90 - 37$ or $90 - 37$	M1	oe $37 + 90 + x = 180$
	53	A1	
14 (c)	$112 - 48$	M1	
	64	A1	
15 (a)(i)	$\frac{7}{20}$	B2	B1 for either 7 or 20 correct
15 (a)(ii)	$\frac{11}{20}$	B1	
15 (b)	$1 + 2 + 4$	M1	
	7	A1	SC1 for any multiple of 7

Q	Answer	Mark	Comments
16 (a)	40	B1	
16 (b)	$7x + 3x$ or $6 - 2$	M1	
	$10x = 4$	A1	
	$\frac{4}{10}$	A1	
17 (a)	$9x + 5y$	B2	B1 for one correct term
17 (b)	$2(4w - 5)$	B1	
18	600×1.15	M1	
	690	A1	
	their 690 – 570 or their 120	M1	
	their 120 \div 1.29	M1	
	93.02 or 93.03 or 93	A1	
19 (a)	Bearing of 110°	M1	Accept [108° , 112°]
	Straight line joining Karak and Safawi and Ezraq marked	A1	
19 (b)	$\frac{6.4}{1.6}$ or $\frac{70}{1.6}$ or 6.4×70	M1	Accept [1.5, 1.7] Accept [6.3, 6.5]
	$\frac{6.4 \times 70}{1.6}$	M1dep	
	280	A1	Accept [255, 305]
20	Compare two of (6 kg) 12×1.49 4×4.45 2×8.99	M1	
	Compare the third one with the better of the first comparison	M1dep	
	Correct answers of (£)17.88 (£)17.80 (£)17.98	A1	
	Correct conclusion from their working 4 packs of 1.5 kg	Q1	Strand (iii) Dependent on M marks

Q	Answer	Mark	Comments
20 Alt	2×4.45	M1	Compared with 8.99 (3 kg) oe
	3×1.49	M1	Compared with 4.45 (1.5 kg) oe
	Correct answers 8.90 and 8.99 4.47 and 4.45	A1	
	Correct conclusion from their working 4 packs of 1.5 kg	Q1	
21 (a)	10 points plotted correctly	B3	B2 for 8 or 9 points B1 for 6 or 7 points $\frac{1}{2}$ square tolerance
21 (b)	No correlation	B1	
21 (c)	$\frac{6}{10}$	B2	B1 for 6 seen or $\frac{\text{their } 6}{10}$
22 (a)	2 and -1	B2	B1 for each
22 (b)	All 7 points plotted correct	B2	$\pm \frac{1}{2}$ square tolerance B1 for 5 or 6 points correct
	Smooth curve	B1ft	ft their points
22 (c)	No and valid reason	B1	eg when $x = 10$, $y = 47$
23	$(0 \times 12) + 1 \times 10 + 2 \times 6 + 3 \times 4 + 4$ $\times 3 + 5 \times 2$ $(0 +) 10 + 12 + 12 + 12 + 10$	M1	Allow one error
	56	A1	
	38×1.5	M1	
	57 and 1 goal scored	A1	