





GCSE MATHEMATICS
MARK SCHEME – Specimen Paper (Linear) Foundation Paper 2

Questions	Working	Answer	Mark	Notes
1 (a) (i) (ii) (b) (c)	See diagram	10 16 Correct lines 14	2 2 2	B1 cao B1 cao B1 for each correct line B2 cao (B1 for 13 or 15)
2 (a) (b) (c) (d)		130 2.8 Arrow at 38 Arrow at 5.4	1 1 1 1	B1 ± 2 Could be written on diagram B1 ± 0.2 Could be written on diagram B1 allow ± half graduation B1 allow ± half graduation
3 (i) (ii)		Cone Cube	2	B1 accept circular pyramid (ignore spelling) B1(accept cuboid)
4 (a) (b) (c)	Red  9 Blue  5 Yellow  4 Green  2	2 Red or 9	1 1	M1 for attempt to tally A1 for 1 frequency correct or all tallies correct A1 for all frequencies correct (accept if /20)
5 (a) (b) (c)	$£5 - (£2.05 + £2.20)$ $£20 \div £2.60 = 7.6923\dots$ $\frac{1}{4}$ of 20	$£0.75, 75p$ 7 5	4 2 2	M1 $£2.05 + £2.20$ A1 for $£4.25$ M1 for $£5 - "£4.25"$ A1 cao M1 for $£20 \div 2.60$ or sight of digits 769 A1 for 7 M1 $\frac{1}{4}$ of $£20$ oe A1 cao SC B2 for 15

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6 (a) (i) (b) (ii) (c)	$\times 2$	8 22 22	2 1 3	B1 cao B1 cao B1 for explaining a suitable method of continuing the pattern B3 cao B2 cao for 18,22 seen (B1 for one only ft from their “18”) B1 for correct diagrams
7 (i) (ii) (iii)	See diagram	Scalene 63° Acute	3	B1 for scalene (accept explanation) B1 61-65° B1 for acute (ignore spelling)
8 (a)	$3742 - 3580 = 162$ “162” $\times 56p$	90.72	4	M1 3742 – 3580 A1 162 M1 for “162” $\times 56p$ or 9072 seen A1 cao Or M1 for 3580×56 (or digits 20048(0) seen) or 3742×56 (or digits 209552 seen) A1 if one correct M1 for “209552” – “200480” or 9072 seen A1 cao
(b)	$\frac{1}{5} \times 165 = 33$ $165 - “33”$	132	3	M1 $\frac{1}{5} \times 165$ (or M1 for $\frac{4}{5}$ seen) A1 for 33 (or M1 for $\frac{4}{5} \times 165$) A1 for 132 ft
(c) (i) (ii)		60 150	2	B1 for 60 (± 1) B1 for 150 (± 3)

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9 (a) (b) (c) (d)		10 10 July -11	1 1 1 1	B1 accept -10 B1 accept -10 B1 accept 4 B1 cao
10 (a) (b)	Height of man \times "2.5"	1.5 – 2.0 3 – 6	1 3	B1 for height: 1.5 – 2.0 B3 for height between 3m – 6m inclusive (B2 for multiplying (a) by a number between 2 and 3 inclusive) (B1 for multiplying (a) by a number cannot be implied)
11 (a) (b)	$\begin{array}{r} 0 \quad 6 \quad 8 \quad 8 \quad 9 \\ 1 \quad 2 \quad 2 \quad 4 \quad 5 \quad 5 \quad 6 \quad 6 \quad 8 \quad 8 \\ 2 \quad 1 \quad 1 \quad 1 \quad 2 \quad 5 \\ 3 \quad 2 \quad 4 \end{array}$	Diagram 16	2 2	B2 for fully correct (B1 for 2 errors in leaves or omitted key or unordered) B1 for putting in order A1 cao
12 (a) (i) (ii) (b) (i) (ii)	180 – 35 180 – 120 – 35	145 Sum of angles on a straight line equals 180° 25 Sum of angles in a triangle is 180°	2 2	B1 cao B1 for (angles in a straight) line (add to) 180° B1 cao B1 for (angles in a) triangle (add to) 180°
13 (a) (b)	1 1 2 2 2 3 4 4 4 4 4 – 1	2.5 3	2 1	M1 for ordering ages correctly A1 cao B1 cao
14 (a) (b)		2p p – 7	1 1	B1 accept $2 \times p$ or $p2$ or $p \times 2$ or $p + p$ B1 cao
15	p + 3q + 3p + 5q	4p + 8q	2	B2 accept in reverse formation accept $p4$, $4 \times p$ etc (B1 for 4p or 8q seen)

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16	$360^\circ \div 18 (= 20)$ Sector angles: F = 40; T = 120; P = 200; Correct sectors labelled correctly Use overlay	Angles drawn, labelled	4	B4 for fully correct and labelled pie chart (B3 for all angles correct or a labelled pie chart with 2 angles correct) (B2 for labelled pie chart with 1 correct angle) (B1 for $360^\circ \div 18$ or 20 seen or implied)
17		12.30 pm 40	1 1 2	B1 for 12:30 (± 5 min) B1 for 40 (± 2 km) B1 horizontal. line from (4, 50) to (5, 50) B1 line from (5, 50) to (8, 0) or horizontal translation of it SC B1 for any journey ending at (8, 0)
18		Correct prism	2	B2 for a reasonable 3-D drawing in perspective B1 for attempt at 3-D drawing
19	$60 \div 3 = 20$ $20 - 11$	9	2	M1 for $\div 3$ or 20 seen or $3(x+11)$ A1 cao
20	$0.3 + 0.25$ $1 - 0.55$	0.45 oe	2	M1 for $1 - (0.3 + 0.25)$ A1 for 0.45 oe [SC:B1 for 0.72]

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21	$8.80 \times \frac{17.5}{100} = 1.54$ $8.80 + 1.54 = 10.34$ $650 \times "10.34"$ $7800 + 6084$	£6721	4	<p>M1 for $8.80 \times \frac{17.5}{100}$ or digits 1.54 seen or 8.80×1.175 (oe)</p> <p>(Award M1 for 10%, 5% and $2\frac{1}{2}\%$ correctly calculated)</p> <p>M1 for "8.80+" "1.54" dep on previous M1 (M1 dep)</p> <p>M1 for $650 \times "10.34"$ or digits 6721 seen A1 cao</p> <p>Alternative</p> <p>M1 for $650 \times 8.8(0)$ or digits 5720 seen</p> <p>M1 for "5720" $\times \frac{17.5}{100}$ or 1001 seen (M2 for "5720" $\times 1.175$ oe seen)</p> <p>(Award M1 for 10%, 5% and $2\frac{1}{2}\%$ correctly calculated)</p> <p>M1 for "5720" + "1001" (dep on both previous Method marks) or digits 6721 seen A1 cao</p>

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22 (a)	$4y + 12 = 6$ $4y = -6$	-1.5	3	B1 for $4y + 12$ or $y + 3 = 6 \div 4$ M1 for isolating $4y$ A1 oe
(b)	$f - g = 3h$ or $\frac{f}{3} = \frac{g}{3} + h$	$\frac{f - g}{3}$ oe	2	M1 for $f - g = 3h$ or $\frac{f}{3} = \frac{g}{3} + h$ A1 cao
23	2.5 → 40.6 (25) 2.6 → 43.5 (76) 2.7 → 46.6 (83) 2.8 → 49.9 (50) 2.9 → 59.3 (89) 2.85 → 51.6 (49)	2.8	4	B2 for a trial between 2 and 3 exclusive (B1 for a trial at 2 or 3) B1 for a trial between 2.8 and 2.9 exclusive B1 (dep on at least one previous B1) for 2.8 NB trials should be evaluated to at least 1 dp truncated or rounded

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24 (a)	$48 \div (5 + 4 + 3)$ "4" $\times 3$	12	3	M1 for $48 \div (5 + 4 + 3)$ M1 (dep) for "4" $\times 3$ or "4" $\times 5$ or "4" $\times 4$ A1 cao [SC: B2 for 20:16:12 only]
(b)	$1.24 \times \frac{95}{100} = 0.1178$ $1.24 + 0.1178 = 1.3578$	1.36 or 1.4	4	M1 for $1.24 \times \frac{95}{100}$ or $0.11(78)$ seen M1 (dep) for $1.24 + \frac{95}{100}$ A1 for 1.4 or better B1 (indep) for rounding their answer correctly to 1 or 2dp OR M1 for $1.24 \times \frac{100 + 9.5}{100}$ M1 (dep) for $1.24 \times "1.095"$ or $0.0124 \times "109.5"$ A1 for 1.4 or better B1 (indep) for rounding their answer correctly to 1 or 2dp

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Question 6(b)

Count all the evens until you get to the 100th even number

Double 100

Write down the even numbers and count the 100th

Go up in two's

Add on 2 each time

$$100 + 100$$

Keep counting missing a number

By taking out all the odds

Go up in order where all the numbers end in 2, 4, 6, 8, 0

Do your 2 times table

Numbers in the 2 times table

Keep going 2 numbers forward

Add 2 to the previous term

$$10 \times 20$$

$$10 \times 10$$

The tenth even number times by 10

Add a zero to the tenth even number

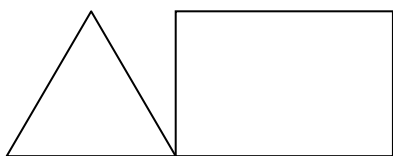
Add 1 to the 100th odd number

Take 1 away from the 100th odd number

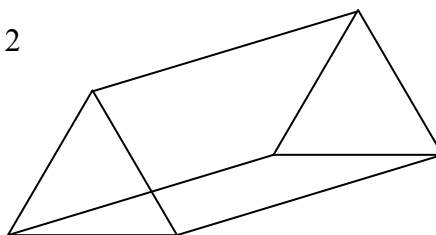
Count on until you get the 100th even number

Question 17

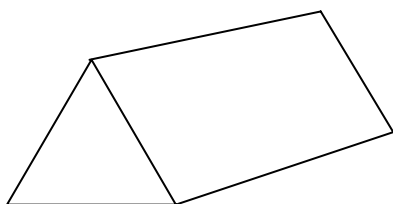
1



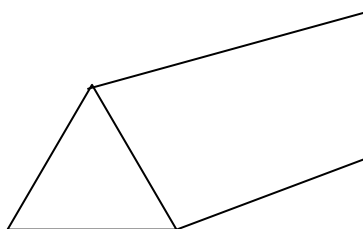
2



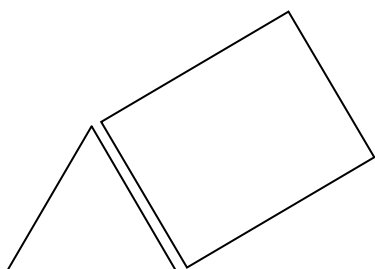
3



4



5.



6

