

November 2010

1380/1F				
Question	Working	Answer	Mark	Notes
1	(a)	2358	1	B1 cao
	(b)	8532	1	B1 cao
	(c)	number ending in 3 or 5	1	B1 for number ending in 3 or 5
2	(a)	Completed bar chart	1	B1 for bar with height 5
	(b)	$6 + 8 + 5$	2	M1 for adding 3 heights (at least 2 correct, can f.t.) A1 ft from (a)
3	(a)	four thousand nine hundred and six	1	B1 cao
	(b)	10 548	1	B1 cao
	(c)	460	1	B1 (accept words)
	(d)	30 000	1	B1 (accept words)
4	(a)	1	1	B1 cao
	(b)	Angus	1	B1 cao

Question	Working	Answer	Mark	Notes
5 (a)		$\frac{1}{5}$	1	B1 for $\frac{1}{5}$ oe (accept one fifth but not fifth)
(b)		75	1	B1 cao
(c)		Any 6 squares shaded	1	B1 cao
(d)		$\frac{6}{10}$ and $\frac{66}{100}$	2	M1 for attempt at equivalent fractions or cancelling or 1 correct A1 both fractions correct
6 (i)		6	3	B1 cao
(ii)		12		B1 cao
(iii)		8		B1 cao
7 (a)		2 lines marked	2	B2 for correct 2 lines, no extras (B1 for 1 correct line, no extras OR 2 correct lines with both 'diagonals' OR 2 correct lines with 1 extra line)
(b)		3	1	B1 cao

Question	Working	Answer	Mark	Notes
8 (a)		(0)8 14	1	B1 for (0)8 14
(b)(i)		11	2	B1 for 11
(ii)		(0)9 39		B1 for (0)9 39
(c)	08 50 - 07 26	84	2	M1 for 08 50 seen or digits 124 seen A1 for 84 (Accept 1 hr 24 min but not 1.24, 1:24 etc)
9 (a)		14	1	B1 cao
(b)		17	1	B1 cao
(c)		10	1	B1 cao
(d)		64	1	B1 cao
10 (a)(i)		12	3	B1 cao
(ii)		7		B1 cao
(iii)		5		B1 cao
(b)	eg $3^2 + 4^2 = 25$ eg $36 + 49 = 85$	e.g. $9 + 16 = 25$ which is odd	2	M1 for square number + square number (eg $16 + 9$) NOTE: $16 + 10$ scores M0 A0 or $x^2 + y^2$ with at least one evaluated correctly (eg $4^2 + 3^2 = 16 + 6$) or $x^2 + y^2$, neither evaluated but correct total (eg $4^2 + 3^2 = 25$) A1 square number + different square number with correct total that is odd

Question	Working	Answer	Mark	Notes
11 (a) (i)		9	2	B1 cao
(ii)		12		B1 cao
(b)	$3 \times 2 + 4 \times -1$ $= 6 - 4$	2	2	M1 for $3 \times 2 + 4 \times -1$ oe A1 cao
12 (i)		grams or g	3	B1
(ii)		metres or m		B1
(iii)		millilitres or ml		B1 (accept cm^3 , cc, cl)
13 (a)		80	1	B1 (accept answer in range 78 - 82 inc)
(b)		7.50	1	B1 (accept answer in range 7.30 - 7.70 inc)
14 (a)		$2n$	1	B1 for $2n$ oe
(b)		$n + 3$	1	B1 for $n + 3$ oe
15 (a)		Food	1	B1 cao
(b)		$\frac{1}{4}$	1	B1 for $\frac{1}{4}$ oe
(c)	25×4	100	2	M1 for 25×4 or ft from (b) A1 cao

Question	Working	Answer	Mark	Notes
16 (a)		Reason	1	B1 for (vertically) opposite angles are equal oe B1 for valid reason eg because it is 30° eg angles on a (straight) line add to 180° eg they add to 380° not 360°
(b)		Reason	1	
17 (a)		Green	1	B1 cao
(b)		$\frac{2}{6}$	1	B1 for $\frac{2}{6}$ oe
18 (i)		Cone	2	B1 (accept incorrect spelling if intention is clear)
(ii)		Cylinder		B1 (accept incorrect spelling if intention is clear)
19	30×50	1500	2	M1 for correctly rounding at least one number. A1 cao
20	$540 - 240 = 300$ $\frac{15}{100} \times 300$ (or $10\% = 30$ $5\% = 15$ $30 + 15 = 45$)	45	3	M1 for $540 - 240$ or 300 seen M1 (dep) for $\frac{15}{100} \times '300'$ or correct method for $10\% + 5\%$ of '300' A1 cao SC: If no marks scored award B1 for an answer of 81 or 36

Question	Working	Answer	Mark	Notes																		
21	<table border="1" data-bbox="327 240 775 395"> <tr> <td>x</td> <td>-2</td> <td>-1</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>y</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> <td>0</td> <td>-1</td> </tr> </table>	x	-2	-1	0	1	2	3	4	5	y	6	5	4	3	2	1	0	-1	graph	3	<p>(Table of values) M1 for at least 2 correct attempts to find points by substituting values of x M1 ft for plotting at least 2 of their points (any points plotted from their table must be correct) A1 for correct line between $x = -2$ and $x = 5$</p> <p>or</p> <p>(No table of values) M2 for at least 2 correct points (and no incorrect points) plotted or line segment of $x + y = 4$ drawn (ignore any additional incorrect segments) (M1 for at least 3 correct points plotted with no more than 2 incorrect) A1 for correct line between $x = -2$ and $x = 5$</p> <p>or</p> <p>(Use of $y = mx + c$) M2 for at least 2 correct points (and no incorrect points) plotted (M1 for $y = 4 - x$ or line drawn with gradient of -1 or line drawn with a y intercept of 4 and a negative gradient) A1 for correct line between $x = -2$ and $x = 5$</p>
x	-2	-1	0	1	2	3	4	5														
y	6	5	4	3	2	1	0	-1														

Question	Working	Answer	Mark	Notes				
22 (a)		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>13</td> <td>15</td> </tr> <tr> <td>15</td> <td>17</td> </tr> </table>	13	15	15	17	1	B1 cao
13	15							
15	17							
(b)		(4, 7), (6, 5), (8, 3)	2	B2 for all 3 pairs and no extra (number in any order in each pair, condone use of addition sign) and no extra pairs (B1 for 1 or 2 or 3 correct pairs and no more than 3 extra pairs given (ignoring repeats))				
(c)		$\frac{3}{20}$	2	B2 ft oe Accept answer as fraction or decimal or percentage (B1 for $\frac{x}{20}$, $x < 20$, $x \neq 3$ or $\frac{3}{x}$, $x > 3$, $x \neq 20$) SC: If no marks scored award B1 for '3 out of 20' or other use of incorrect notation				
23 (a)(i)		36	2	B1 cao				
(ii)		16		B1 cao				
(b)(i)		- 2	2	B1 cao				
(ii)		12		B1 for 12 or +12				
24	$2 \times 2 \times 2 = 8$ $8 \div 2 = 4$	4 cm^3	3	M1 for $2 \times 2 \times 2 \div 2$ oe or $1 + 1 + 0.5 + 0.5 + 0.5 + 0.5$ oe A1 cao B1 (indep) for cm^3				

Question	Working	Answer	Mark	Notes																											
25 (a)		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>6</td><td>9</td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>2</td><td>4</td><td>7</td><td>7</td><td>7</td><td>8</td></tr> <tr><td>8</td><td>0</td><td>1</td><td>2</td><td>3</td><td>3</td><td>6</td></tr> <tr><td>9</td><td>1</td><td>2</td><td></td><td></td><td></td><td></td></tr> </table> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;">Key: 7 2 = 72</div>	6	9					7	2	4	7	7	7	8	8	0	1	2	3	3	6	9	1	2					3	M1 for ordered or unordered stem and leaf diagram (condone 2 errors, 1 number misplaced counts as one error) A1 for correctly ordered and fully correct diagram NB: ignore commas between leaves, stem could be 60, 70, 80, 90 B1 for key e.g. 7 2 = 72
6	9																														
7	2	4	7	7	7	8																									
8	0	1	2	3	3	6																									
9	1	2																													
(b)		77	1	B1 for 77 or ft from (a)																											
26	$\frac{17}{20} - \frac{8}{20}$	$\frac{9}{20}$	2	M1 for a correct common denominator and at least one correct numerator (must be $\frac{8}{20}$ if 20 used as common denominator) A1 for $\frac{9}{20}$ oe																											
27		Correct construction	2	M1 for two pairs of correct intersecting arcs (may be on the same side of AB) A1 for correct perpendicular bisector (SC: B1 if no marks scored, for line within guidelines)																											
28	$\frac{2+12}{2}, \frac{3+7}{2}$	7, 5	2	M1 for $\frac{2+12}{2}$ or $\frac{3+7}{2}$ oe (may be implied by one correct coordinate) A1 cao (SC B1 for 5, 7)																											

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Question	Working	Answer	Mark	Notes
29 (a)	$3x + 15 + 10x - 12$	$13x + 3$	2	M1 for correctly multiplying out one bracket A1 cao
(b)		$5(x + 2)$	1	B1 cao
(c)		$x(x - 7)$	1	B1 cao
30 (a)		rotation 180° centre (0, 0)	3	B1 for rotation B1 for about (0,0) B1 for 180° (accept half turn) NB: If more than one transformation seen then B0
(b)		triangle with vertices (6, 1) (6, 4) (5, 4)	1	B1cao
31 (a)		$4n - 2$	2	B2 for $4n - 2$ oe (including unsimplified) (B1 for $4n$ or $4n + k$, $k \neq -2$ or $4n - k$, $k \neq 2$ or $n = 4n - 2$)
(b) (i)		1	2	B1 cao
(ii)		- 15		B1 cao