

1380/1F				
Question	Working	Answer	Mark	Notes
1	(a)	8	1	B1 cao
	(b)	3	1	B1 cao
	(c)	3 circles 2.5 circles	2	B1 cao B1 cao
2	$30 - (16 + 9)$	5	2	M1 30 - "(16 + 9)" or "30 - 16" - 9 or "30 - 9" - 16 A1 cao
3	(a)	30	1	B1 for 30
	(b)	5	1	B1 for 5
4	(a)	Correct line	1	B1 For a single line of length in the range 6.8cm to 7.2cm drawn with or without using the given point P
	(b)	Correct point	1	B1 for point Q identified on their line within the range 2.8 cm to 3.2 cm from P
5	(a)	116	1	B1 for 116 [accept 114 if 116 seen on the dotted line in the sequence]
	(b)	112	1	B1 cao
	(c)	it is odd (and all the terms are even)	1	B1 for a correct reason
6	(a)	16	1	B1 cao
	(b)	12 cm ²	2	B1 for 12 cao, B1 (indep) for cm ²
	(c)	15	2	M1 for 5×3 A1 cao [SC: B1 for 10, 13 or 14]

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7	(a)		08 30	1	B1 for 08 30 oe
	(b)		17	1	B1 cao
	(c)		10 15	1	B1 for 10 15 oe
8	(a)		Four thousand, one hundred and seventeen	1	B1 for four thousand, one hundred and seventeen oe
	(b)		4100	1	B1 for 4100 in figures or words or 41 hundred
9	(a)		8	1	B1 cao
	(b)		C	1	B1 for C or pyramid
10	(a)		58	1	B1 57 to 59 (not inclusive)
	(b)		3.6	1	B1 3.5 to 3.7 (not inclusive)
	(c)	7 - 3.6	3.4	1	B1 for 3.3 to 3.5 (not inclusive) or ft on 7 - "(b)" provided "b" < 7
11	(a)		(4, 6)	1	B1 cao
	(b)		(0, 3)	1	B1 cao
	(c)	$\left(\frac{0+4}{2}, \frac{3+6}{2}\right)$	(2, 4.5)	2	B2 for (2, 4.5) ±0.2 on each coordinate [B1 for (2, b) b ≠ 4.5 or (a, 4.5) a ≠ 2 or (4.5, 2) or $\left(\frac{0+4}{2}, \frac{3+6}{2}\right)$ seen ±0.2 on each coordinate]


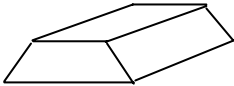
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Question	Working	Answer	Mark	Notes	
12	(a)		– 4	1	B1 for –4°C or Edinburgh
	(b)		7	1	B1 for 7 (accept –7)
	(c)		2	1	B1 for 2 or Leeds
13	(a)		Impossible	1	B1 cao
	(b)		Even	1	B1 cao
	(c)		Certain	1	B1 cao
14	(a)		12	1	B1 cao
	(b)		24	1	B1 cao
	(c)		49	1	B1 cao
15	(a)		$4x$	1	B1 for $4x$ (accept $4 \times x$, $x \times 4$, $x4$)
	(b)		y^3	1	B1 cao
	(c)		$2x + 8y$	2	B2 for $2x + 8y$ oe [B1 for $2x$ or $8y$ seen] {Note: $-8y$ seen with no working gets B0 $4x + 2x = 6x$ gets B0}
16	(a)		Diagram (<i>overlay</i>)	2	B2 within guidelines of the overlay (B1 for exactly one given angle correctly drawn within guidelines of overlay)
	(b)		90	1	B1 for an angle in range 86 to 94 or ft 'angle' measured correctly within $\pm 2^\circ$

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17	$20 \times 36 = 720$ $4 \times 36 = 144$ <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>30</td> <td>6</td> <td></td> </tr> <tr> <td>20</td> <td>600</td> <td>120</td> <td>720</td> </tr> <tr> <td>4</td> <td>120</td> <td>24</td> <td>144</td> </tr> <tr> <td></td> <td>720</td> <td>144</td> <td></td> </tr> </table> <div style="text-align: center;"> 3 6 <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">0</td> <td style="width: 20px;">1</td> <td style="width: 20px;"></td> </tr> <tr> <td></td> <td style="text-align: center;">6</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">8</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">4</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">4</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">6</td> <td style="text-align: center;">4</td> <td></td> </tr> </table> </div>		30	6		20	600	120	720	4	120	24	144		720	144			0	1			6	2	2	8	1	2	4		2	4			6	4		864	3	<p>M1 for a complete method with relative place value correct. Condone 1 multiplication error, addition not necessary.</p> <p>M1 (dep) for addition of the appropriate elements of the calculation.</p> <p>[Note: Repeated addition of 24 lots of 36 (36 lots of 24) gets M1 only]</p> <p>A1 cao</p>
	30	6																																						
20	600	120	720																																					
4	120	24	144																																					
	720	144																																						
	0	1																																						
	6	2	2																																					
8	1	2	4																																					
	2	4																																						
	6	4																																						
18		Ben with a valid reason	2	<p>B2 for Ben and a valid reason, eg 'it should be 180' or 'they are not supplementary (allied, co-interior)' oe This could be implied by 184 or 84 or 92 seen</p> <p>[B1 for Ben and 88+96 or 180 - 88 or 180 - 96 seen or for just a valid reason given (eg without Ben or with James)]</p>																																				
19	(a)	56 Reason	2	<p>B1 56° cao</p> <p>B1 sum of angles on a straight line is 180°</p>																																				
	(b)	22	1	B1 cao																																				

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20	(a)	$\frac{90}{600}$	$\frac{3}{20}$	2	$\frac{90}{600}$ M1 $\frac{90}{600}$ $\frac{3}{20}$ A1 $\frac{3}{20}$ cao [SC: B1 for 0.15 or 15% if M0 scored]
	(b)	$\frac{180}{600} \times 100$ OR $\frac{180}{600} = \frac{30}{100}$	30	2	$\frac{180}{600} \times 100$ M1 $\frac{180}{600} \times 100$ A1 cao OR $\frac{180}{600} = \frac{30}{100}$ M1 $\frac{180}{600} = \frac{30}{100}$ or attempt to cancel to 100 A1 cao
	(c)	$600 - (90 + 180) = 330$ blue or green $330 \div 3$	110	2	M1 [$600 - (90 + 180)$] $\div 3$ A1 cao [SC: B1 for an answer of 140 or 170 if M0 scored]

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Question	Working				Answer	Mark	Notes	
21	(a)	15	25	14	54	Table	3	B3 for all 5 correct (B2 for 3 or 4 correct) (B1 for 1 or 2 correct)
		22	8	16	46			
		37	33	30	100			
	(b)					$\frac{37}{100}$	1	B1 $\frac{37}{100}$ oe
	(c)					$\frac{24}{46}$	2	B2 for $\frac{''46''-''22''}{'46'}$ oe, ft from no of girls (B1 16 + 8 or 24 or '46' seen)
22						$2c + 4r$	2	B2 for $2c + 4r$ oe [B1 for $2c$ or $4r$ oe seen] Ignore any Left Hand Side = $2c + 4r$ {Note: ignore units or use of 'p'}
23		$360 - (120 + 140 + 58)$				42	2	M1 $360 - (120 + 140 + 58)$ or equivalent) or for $(a + 58 + 120 + 140 = 360)$ oe seen A1 cao [Note: The subtraction MUST be from 360]

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Question	Working	Answer	Mark	Notes	
24	(a)	$4x = 9 - 1$ $\frac{4x}{4} + \frac{1}{4} = \frac{9}{4}$	2	2	M1 for $4x = 9 - 1$ or $\frac{4x}{4} + \frac{1}{4} = \frac{9}{4}$ or a clear intention to either subtract 1 from both sides of the equation or to divide each term by 4 A1 for 2 (accept $\frac{8}{4}$)
	(b)	$2y = 12 + 1$ $\frac{2y}{2} - \frac{1}{2} = \frac{12}{2}$	6.5	2	M1 $2y = 12 + 1$ or $\frac{2y}{2} - \frac{1}{2} = \frac{12}{2}$ or a clear intention to either add 1 to both sides of the equation or divide each term by 2 A1 6.5 oe (accept $\frac{13}{2}$)
25	(a)		Vertices at (2, -2), (7, -2), (7, -6), (4, -6), (4, -4), (2, -4)	2	B2 for a fully correct rotation [B1 for correct shape with correct orientation OR a 90° anticlockwise rotation about O OR a 180° rotation about O OR for any 3 correct sides in the correct position]
	(b)		Translation by $\begin{pmatrix} 3 \\ -1 \end{pmatrix}$	2	B1 for translation B1 (indep) for $\begin{pmatrix} 3 \\ -1 \end{pmatrix}$ or 3 right and 1 down

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26	(a)		opp sides are equal	1	B1 for a correct explanation
	(b)	$4x - 2x = 12 - 1$	5.5	2	M1 for $4x + 1 - 1 - 2x = 2x + 12 - 1 - 2x$ oe A1 for 5.5 or 11/2 or 5½
	(c)	'5.5' $\times 2 +$ $4 \times$ '5.5' $+ 1 +$ $2 \times$ '5.5' $+ 12$	57	2	M1 for correct substitution of $x =$ '5.5' into the four expressions to find the sum of FOUR sides or $8x + 13$ seen A1 ft
27	(a)			2	M1 rectangle with either correct width or height or any square A1 cao
	(b)			2	B2 for a correct sketch (B1 any 3-D sketch of no more than 4 faces seen, with a trapezoidal face)
28	(a)			2	B1 'What type of magazine do you read?'
	(b)		How many magazines have you read in the last week 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2-3 <input type="checkbox"/> >3 <input type="checkbox"/>	2	B1 for at least 2 magazines identified in response boxes [Note: B0 for any data collection sheet/chart B1 Relevant question that refers to a time period. B1 for at least 3 mutually exclusive response boxes (need not be exhaustive)]

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29	(a)	15.456	1	B1 cao
	(b)	0.15456	1	B1 cao
	(c)	3220	1	B1 cao
30	(a)	6	2	M1 for $72 \div 2$ or 36 seen A1 6 or -6 or ± 6
	(b)	$2 \times 2 \times 2 \times 3 \times 3$	2	M1 for a systematic method of at least 2 correct divisions by a prime number oe factor tree or a full process with one calculation error; can be implied by digits 2, 2, 2, 3, 3 on answer line A1 for $2 \times 2 \times 2 \times 3 \times 3$ or $2^3 \times 3^2$ oe [Note $1 \times 2 \times 2 \times 2 \times 3 \times 3$ gets M1 A0]

