3D Shape Questions

OCR Thursday 8 November 2018 – Morning (Non-Calculator) Foundation Tier

1.

3	(a)		equilateral	1		Ignore spelling
	(b)	(i)	rhombus	1		Ignore spelling
		(ii)	rectangle	1		Ignore spelling
	(c)		5 faces and 8 edges	2	B1 for 5 faces or 8 edges or SC1 for 8 faces and 5 edges	

OCR Thursday 2 November 2017– Morning (Calculator) Foundation Tier

2.

1	(a)		Trapezium	1		
	(b)		6	1		

OCR Sample Question Paper 2 – Morning/Afternoon (Non - Calculator) Foundation Tier

3.

9	(a)		<table><tr><th>Prism</th><th>Number of faces</th><th>Number of edges</th><th>Number of vertices</th></tr><tr><td>Triangular (3 sides)</td><td>5</td><td>9</td><td>6</td></tr><tr><td>Rectangular (4 sides)</td><td>6</td><td>12</td><td>8</td></tr><tr><td>Pentagonal (5 sides)</td><td>7</td><td>15</td><td>10</td></tr><tr><td>Hexagonal (6 sides)</td><td>8</td><td>18</td><td>12</td></tr></table>	2 1 AO1.1 1 AO2.1a	**B1** for 2 correct	
	(b)		300 (edges) 200 (vertices)	1 1 2 AO2.1a		
	(c)		$F = N + 2$ **oe**	2 1 AO2.3a 1 AO2.3b	**B1** for $N + 2$ (without a subject)	Condone for **B1** a correct word formula

4.

Q	Answer	Mark	Comments
25(a)	**Alternative method 1**		
	$200 - 2 \times 5 \times 5$ or $200 - 50$ or 150 or $4 \times 5 \times y$ or $20y$	M1	oe eg $5y + 5y + 5y + 5y$ implied by 37.5 or answer 937.5
	$4 \times 5 \times y = 200 - 2 \times 5 \times 5$ or $4 \times 5 \times y = 200 - 50$ or $4 \times 5 \times y = 150$ or $150 \div 4 \div 5$ or $150 \div 20$ or 7.5	M1dep	oe eg $20y = 150$
	187.5	A1	oe
	Alternative method 2		
	$200 - 2 \times 5 \times 5$ or $200 - 50$ or 150	M1	oe implied by 37.5 or answer 937.5
	$150 \div 4 \times 5$ or 37.5×5	M1dep	oe
	187.5	A1	oe
	Additional Guidance		
	Embedded 7.5 eg $4 \times 5 \times 7.5 = 150$		M1M1

Q	Answer	Mark	Comments
25(b)	It is smaller than the answer to part (a)	B1	

AQA Tuesday 21 May 2019 – Morning (Non-Calculator) Foundation Tier

5.

14	$5 \times 7 \times 10$	M1	
	350	A1	
	Additional Guidance		
	Ignore further "method" for M1 eg $5 \times 7 \times 10 \div 2 = 175$ however $5 \times 7 \times 10 \times 5 \times 7 \times 10$ or 350^2 is M0A0		M1A0
	ignore units		

AQA Sample Paper 2– Morning (Calculator) Foundation Tier

6.

21	12.9×12.9 or 166.41	M1	
	$\frac{1}{3} \times$ their 166.41×17.4	M1	
	965.178 or 965.18 or 965.2 or 965	A1	