2D AND 3D SHAPES

Pearson Edexcel – Specimen 2 - Paper 3 (Calculator) Foundation Tier

1.

4		parallelogram	B1 for parallelogram drawn

Pearson Edexcel – Sample Papers - Paper 3 (Calculator) Foundation Tier

2.

17	(a)	$2x + 2x - 2y + 2x + 2x - 2y$	Shown	M1 C1	For method to acquire correct inside lengths For completion
	(b)	$8x$ and $4y$ are multiples of 4 Their difference must be a multiple of 4 Or $4(2x - y)$ is a multiple of 4	Shown	M1 C1	For method to start argument eg. factorise expression For complete argument

OCR Wednesday 8 November 2017– Morning (Calculator) Foundation Tier

3.

1	**(a)**		edges	**1**	Any clear indication, Eg ringed, others deleted	Condone poor spelling
	(b)		Accept any clear indication	**1**	Expect arc or mark (eg cross) at CAB	
	(c)		[a] straight line	**1**	Any clear indication, Eg ringed, others deleted	Condone poor spelling or line

AQA Tuesday 12 June 2018 – Morning (Calculator) Foundation Tier

4.

11	No and gives a correct reason	B1	eg the cup is narrower at the bottom the top of the cup is wider the radius of the cup is not constant
	Additional Guidance		
	Ignore irrelevant statements with valid reasons		
	A correct reason will usually reference volume, capacity, surface area, width of the cup or that the shape of the cup is not uniform		
	No, volume at top is greater than bottom		B1
	No, more area at top		B1
	No, wider diameter at top		B1
	No, doesn't take account of volume (capacity)		B1
	No, because it's cone shaped (condone use of cone)		B1
	No, the cup goes down in circumference as you begin to drink		B1
	No, the cup is not uniform		B1
	No, she is talking about the height not the volume		B1
	No, there is a larger volume in the top half		B1
	No, more coffee in top half (coffee implies capacity)		B1
	No, the cup has a changing volume		B1

Continues on next page

11 cont	No, it's not a cylinder	B0
	No, there would be 5cm if it was rectangular or square but it is cone shaped so 5cm is not left	B0
	No, top half is more (than bottom half) (no reference to volume)	B0
	No, the cup gets smaller	B0
	No, because of the shape of the cup	B0
	No, the cup is not straight	B0
	No, the cup does not have a symmetrical shape	B0
	No, because the volume of coffee is not measured in cm	B0
	No, because 10cm is the measurement of the cup, not the volume (no reference to height)	B0

AQA Thursday 2 November 2017 – Morning (Non-Calculator) Foundation Tier

5.

12a	8	B1	
	Additional Guidance		

12b	2	B1	
	Additional Guidance		

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6.

13	**Alternative method 1**		
	0.9^2 or 0.81	M1	oe
	4.86	A1	
	48 600	B1ft	ft their 4.86 × 10 000 correctly evaluated their 4.86 cannot be 0.9
	Alternative method 2		
	90 (cm)	B1	
	(their 90)^2 or 8100	M1	oe
	48 600	A1ft	ft (their 90)^2 × 6 correctly evaluated
	Additional Guidance		
	In Alt 1, award the B1ft if their answer clearly comes from multiplying a value by 10 000, but not from 0.9 × 10 000 = 9000		
	0.9 m = 9 cm 9 × 9 = 81 (9 is their 90) 81 × 6 = 486		B0 M1 A1ft
	No conversion shown 9 × 9 = 81 (9 is their 90) 81 × 6 = 486		B0 M1 A1ft
	0.9 × 0.9 = 0.81 and 0.81 × 0.9 = 0.729		M0
	0.9 × 0.9 = 0.81 and 0.81 × 0.9 = 0.729 (0.729 × 10 000) = 7290		M0A0 B1ft

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7.

2	C	B1	

AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

8.

14	The perimeter of R is the same as the perimeter of L	B1	

AQA Sample Paper 2– Morning (Calculator) Foundation Tier

9.

26	**Alternative method 1**		
	6 and 10 seen	M1	
	(their 6)^2 + (their 10)^2 or 136	M1dep	
	[11.66, 11.7] or $\sqrt{136}$ or $2\sqrt{34}$	A1	
	Alternative method 2		
	$12^2 + 20^2$ or 544	M1	
	$\sqrt{\text{their } 544}$ or $4\sqrt{34}$ or [23.32, 23.324]	M1dep	
	[11.66, 11.7] or $\frac{\sqrt{544}}{2}$ or $\sqrt{136}$ or $2\sqrt{34}$	A1	