

PLANS AND ELEVATIONS

Pearson Edexcel - Tuesday 21 May 2019 - Paper 1 (Non-Calculator) Foundation Tier

1.

25	sketch	M1	for sketch of a cylinder	Hidden edges may or may not be shown 2 (cm) for radius or 4 (cm) for diameter and 5 (cm) for height
		A1	sketch of cylinder, with dimensions shown	

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2.

23	(a)	isosceles triangle, base 6 cm, height 4 cm	M1	for drawing an isosceles triangle or for drawing a triangle of base 6cm and height 4cm	Accept a freehand drawing Only a single triangle is acceptable; do not accept any attempted nets or 3-D diagrams Condone a perpendicular drawn from base to vertex Ignore incorrect or absent units for this mark [The SC is from: $4 \times \frac{1}{2} \times 6 \times 4 + 6 \times 6$] Ignore incorrect or absent numerical answer for this mark
			A1	for a fully correct diagram	
	(b)	96 cm ²	M1	for a method to find the area of a triangular face eg $\frac{1}{2} \times 6 \times 5 (= 15)$	
			M1	(dep) for finding the total surface area eg $4 \times "15" + 6 \times 6$	
			A1	for a numerical answer of 96 SC B1 for an answer of 84 if M0 scored	
			B1	cm ²	

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

3.

23		plan	C1 a partially correct plan C1 correct plan
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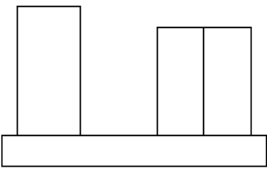
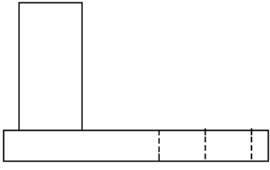
OCR November 09 November 2020- Morning (Calculator) Foundation Tier

4.

5	a	Cylinder	1	Condone poor spelling
	b	[square-based] pyramid or octahedron	1	Condone poor spelling

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5.

16	Correct side view eg 	2	For 2 marks: Second column any height but wider than, and right of, first with roughly middle vertical and flat top B1 for roughly rectangular column width ± 2 mm (between inner and outer overlay circles) and no oblique top and B1 for approx vertical line approx central	If B0 second B1 still possible Mark intention, ruler desirable but not required If no column drawn, must be a hole with dotted lines with same constraints eg  Use overlay
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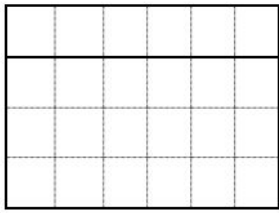
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6.

26		Correct sketch	C1 interprets diagram eg. draw a solid shape with at least two correct dimensions C1 draws correct prism with all necessary dimensions.
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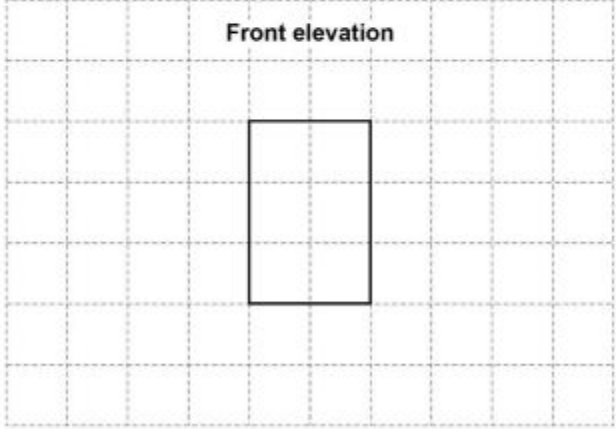
OCR Thursday 8 June 2017 – Morning (Non - Calculator) Foundation Tier

7.

13	a		2	B1 for rectangle 6cm by 4cm	Accept clear intention Accept any orientation Use overlay For B1 ignore any internal lines within a rectangle 6cm by 4cm
	b	54	3	B1 for 9 [cm ²] And M1 for <i>their</i> 9 × 6 or for a volume calculation where 6 is identified as the length	seen as area Eg $b \times l \times w = 4 \times 6 \times 3$ May be seen on diagram

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8.

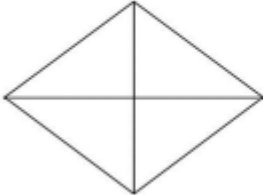

Q	Answer	Mark	Comments
19	Rectangle with height 3 and width 2	B2	any position on the grid B1 rectangle with height 3 or width 2 or rectangle with height 2 and width 3 or cuboid with rectangular front face height 3 and width 2
	Additional Guidance		
	Accept unruled lines		
	 <p style="text-align: center;">Front elevation</p>	B2	

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9.

11(a)	Correct shape drawn in any orientation	B1		
	Additional Guidance			
	eg			B1
	Mark intention with regard to vertices on dots and use of straight lines			
	Condone wrong size triangles drawn, as long as they are right-angled, scalene and congruent			
	Internal lines must be drawn to show position of triangles			
Allow students to extend grid with dots but shapes not on (extended) grid cannot score				

11(b)	Correct shape drawn in any orientation	B1		
	Additional Guidance			
	eg			
	Mark intention with regard to vertices on dots and use of straight lines			
	Condone wrong size triangles drawn, as long as they are right-angled, scalene and congruent			
	Internal lines must be drawn to show position of triangles			
Allow students to extend grid with dots but shapes not on (extended) grid cannot score				

11(c)	Correct shape drawn in any orientation	B1	
	Additional Guidance		
	eg		
	Condone an arrangement which produces an internal rhombus		
	eg		
	Mark intention with regard to vertices on dots and use of straight lines		
	Condone wrong size triangles drawn, as long as they are right-angled, scalene and congruent		
Internal lines must be drawn to show position of triangles			
Allow students to extend grid with dots but shapes not on (extended) grid cannot score			

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10.

23	29	B3	B2 answer 27, 28, 30 or 31 B1 answer 25, 26, 32 or 33 or $4 \times 4 \times 3$ or 48 (total cubes) or $2 \times 3 \times 4$ or 24 (missing cuboid) or 19 seen (cubes in original shape)
	Additional Guidance		
	Beware of 29 or close to 29 arising from (clear) adding of the squares in the original diagrams. This alone is B0, however B1 can still be scored for either 48, 24 or 19 (or the appropriate products leading to 48 or 24)		

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11.

14(a)	Cube	B1	
	Additional Guidance		
	Cuboid		B0

14(b)	Sphere	B1	
	Additional Guidance		
	Accept misspelling as long as intention to indicate sphere		B1
	Spherical		B0
	Ball		B0