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Area of a Trapezium $(8+5) \div 2 \times 6$ (1)

 $= 39 \text{cm}^2$ (1)

Circle Parts Tangent (1)

3D shape Square Based Pyramid (1)

Trig Values $\cos 90^{\circ} = 0$ (1)

Enlargement Circle with radius 4cm (1)

Angles in a Triangle 180 - 123 = 57 (1)

180 - (57 + 57) = 66 (1)

Main Course

Location, Location Two points 6cm apart (1)

Circles with radius 4cm and (1)

5cm

Identify 2 possible locations (1) where circles intersect

400m running track $\pi \times 2 \times 45.34 + 2 \times 84.39$ (1) (1)

= 453.66 m (1)

453.66 - 400 = 53.66m (1)



Drink Can	330ml = 330cm ³	(1)	
	$r^2 = 330 \div 10 \pi$	(1)	
	r = 3.24cm	(1)	
Fixing the Roof	3.6 - 2.8 = 0.8	(1)	
	$2^2 + 0.8^2 = x^2$	(1)	
	x = 2.15m	(1)	
	Felt 2.15m by 4m	(1)	
Total Surface Area	$6x^2 = 486$	(1)	(1)
	x = 9	(1)	
Map Reading	12.4 x 50000 = 620 000 cm	(1)	
	= 6.2km	(1)	
	Time = $6.2 \div 4 = 1.55$ hours	(1)	
	1 hour 33 minutes	(1)	
Dessert			
Triangle Dimensions	If a triangle is a right angled triangle then $a^2 + b^2 = c^2$	(1)	
	$8^2 + 6^2 \neq 9^2$ therefore incorrect dimensions	(1)	
Angles in a Polygon	Hexagon divided into 4 triangles with internal angles 180°	(1)	
	4 x 180 = 720°	(1)	



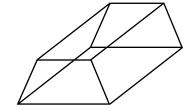
Vectors	a - 2b + 3a + 5b	
	4a + 3b	(1)
Similar Triangles	If similar all sides increased by same scale factor	(1)
	$8/_{10} \neq 3/_{4} \neq 6/_{7.5}$	(1)
	Or	
	0.8 ≠ 0.75 ≠ 0.8	(1)
Quadrilaterals	Rhombus is a parallelogram with all sides of equal length	
	Not all parallelograms have equal sides therefore all	(1)
	cannot be a rhombus	
Bearings	180 - 72 = 108° internal angles add to	(1)
	180° 360 - 108 = 252°	(1)
	angles at a point add to 360°	(.)
Drinks		
Constructing Triangles	5cm line drawn and 2 x 5cm arcs	(1)
	Where arcs intersect draw vertex creating triangle	(1)
Reflection	A' (-1, 4)	
	B' (-4,4)	
	C' (-1,7)	(2)



Length of Arc $^{20}/_{360} \times \pi \times 18$ (1)

3.14 cm (1)

Plans and Elevation (2)



Finding Angles Sin $\bigcap = \frac{5}{7}$ (1)

$$\Theta = \operatorname{Sin}^{-1} {}^{5}/_{7}$$
(1)

$$\bigcap$$
= 46° with the ground. (1)

Angles and Parallel Lines $180 - 84 = 96^{\circ}$ internal add to 180° (1)

$$y = 180 - (63 + 96)$$
 angles in (1) triangle add to 180°

$$y = 21^{\circ}$$
 (1)