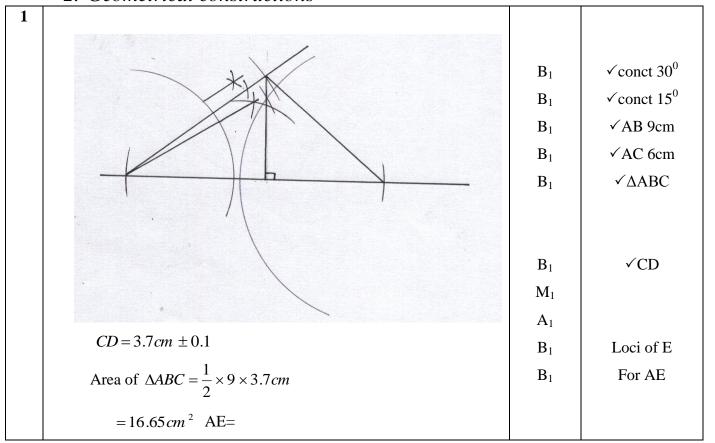
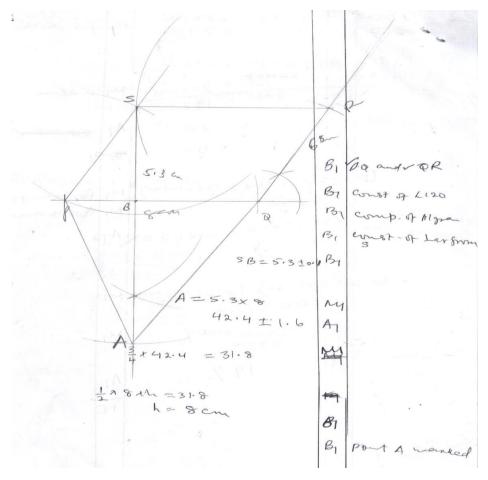
2. Geometrical constructions

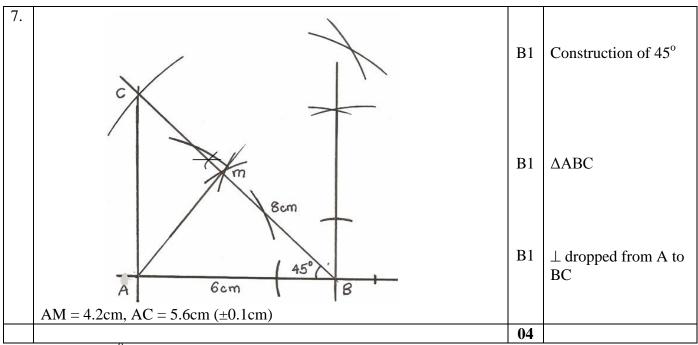


2	* B.	B ₁ B ₁	✓ construction of 90°at x ✓ bisection of line XC and location of centre O ✓ circle drawn	
		3		
3		B1	✓length AB =	
		B1	5.4cm	
		B1	✓ construction of	
		B1	300 at B	
		B1	✓location of C and	Δ
			ABC	
	X	B1	✓length of BC	
	Locus of Q	B1	stated	
	Locus of P	B1	✓identification of	
		B1	A as centre	
	BC = 9.4 cm (± 0.1)	1	<u> </u>	J

 $AD = 2.7cm (\pm 0.1)$

		B1	✓Locus of P
			drawn. (Bo if
			circle completed)
			✓dropping of
			perpendicular
			✓length AD stated
			√his height
			✓locus of Q drawn
		10	
4.		B1	<67½0 constructed
		B1	ABC complete
	X	B1	$AC = 5.7 \pm 0.1$
	(contraction)	B1	C1Drawn
		B1	A1Drawn
		B1	A1BC1 completed
	M M	B1	Locating M
	A		(midpoint M of
	\&"\	B1	AB)
		B1	B11 and A11
		B1	rotated
			C1 rotated
	A ^{II}		A11B11C11
			completed
		10	





9. (a) $\tan 60^{0} = AC$ 5cm

M1

AC = 8.6605CM

A1

(b) $A = \frac{1}{2} \times 5 \times 8.6605$ A = 21.65125 M1

A1

(b)	$^{60}/_{360}$	x	πr^2
(U)	7360	Λ	101

60, 21,42	3.64
$^{60}/_{360} \times 3.142 \times 25$	MI

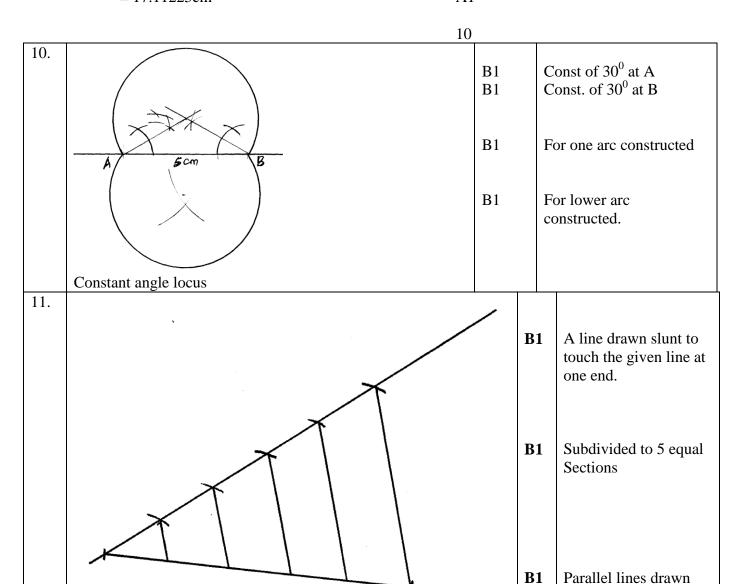
$$= 13.091 \text{cm}^2$$
 A1

(d) Area of shaded part

$$\Delta \text{ COA} = \Delta \text{ OBA, sector OCD} = \text{OCB}$$

21.65 x 2 = 43.3025cm² M1
13.091 x 2 = 26.182cm² M1

∴ Area of shaded part 43.3025 - 26.182 M1 $= 17.11225 \text{cm}^2$ A1



from slunt line to touch the given line

.All complete

03

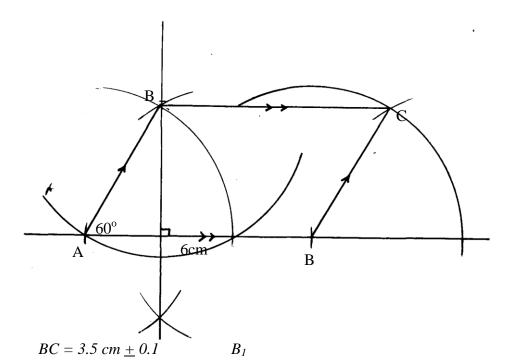
12.	a) length of ON = 3.9cm b) Area = 6x3.9 = 23.4cm ²	B1 B1 B1 B1 B1 B1 B1 A1	Both 90° & 60° at A 75° at A 90° & 60° at B 75° drawn at point B Both AB=6cm and BC = 4cm Parallelogram completed
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13.
$$A = 120000 (1 + \frac{8}{100} x^{1/4})^{3}$$

 $120000 (1.02)^{3} = 127344.95$

14.

15.

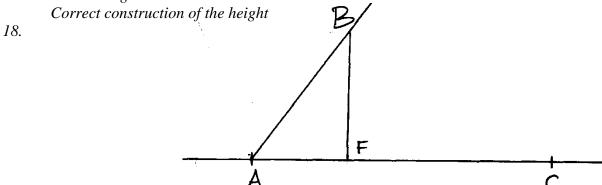


B1 construction of $\angle CAB$.

B1 completion of triangle.

<u>N/B/</u> Arcs should be seen in order to award the above marks.

- 16. $Height = \pm 8.7 \ 1cm$ $(\frac{1}{2} \times 7 \times 8.7) \ 30.45 cm^2$ $2 \pm 1 cm$
- 17. Give 1m of correct and complete triangle Correct angle



19. Marked price = $\frac{100}{90}$ x 450 = shs.500 $Cost = \frac{100}{25}$ x 450 = shs.360 25Profit = 500 - 360= shs. 140