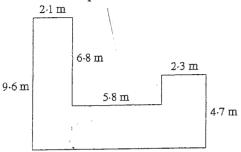
## Chapter 3 Test

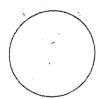
Name:

1. Calculate the perimeter of this figure.



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2. Chris has made a circular cushion of radius

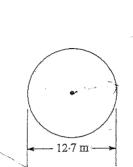


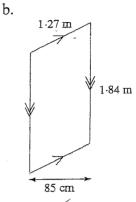
20 cm.

Lace to be attached around the outside edge needs to be  $2\frac{1}{2}$  times the length before being gathered up to fit. What length of lace is needed before it is gathered? (Answer to the nearest cm.)

gathered? (Answer to the hearest chi.)				
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3. Find the areas of these figures, giving your answers to the nearest  $0.1 \text{ m}^2$ .



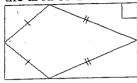


a.	
-	

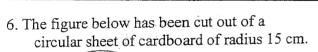
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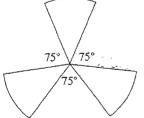
 		 -
	-	

4. A kite is inscribed in a rectangle whose dimensions are 70 cm and 33 cm. What is the area of the kite?



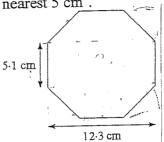
5. A rhombus has an area of 86 cm<sup>2</sup>. One diagonal is 12.9 cm long. Find the length of the other diagonal.





- a. Calculate the perimeter, to 4 significant figures.
- b. Calculate the area, to 1 decimal place.

7. Find the area of the regular octagon, to the nearest 5 cm<sup>2</sup>.



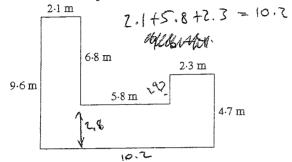
3

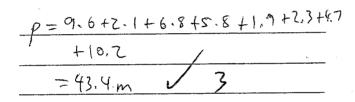
## Chapter 3 Test :

Chapter 3: Test

Renegia Lowe\_ PMP Name:

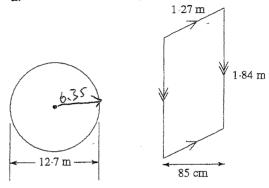
Calculate the perimeter of this figure.





Find the areas of these figures, giving your answers to the nearest  $0.1 \text{ m}^2$ .





a. T × (6.352)	b. a =0.85 x 1.84
= 126.676	~156.HT
= (2 b: 7 m²	=1.8m7 = 1.6

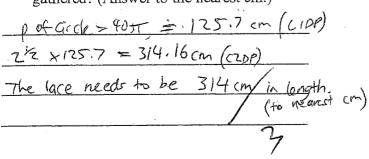
Chris has made a circular cushion of radius 20 cm.



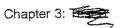
3

Lace to be attached around the outside edge needs to be  $2\frac{1}{2}$  times the length

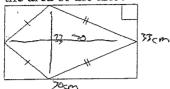
before being gathered up to fit. What length of lace is needed before it is gathered? (Answer to the nearest cm.)

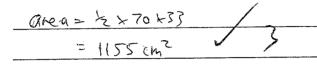


6. a) 
$$f = 6r + \frac{135}{360} \times 7\pi$$
  
=  $6 \times 15 + \frac{3}{8} \times 2\pi \times 5$   
=  $125.3 \text{ cm}$   
b)  $A = \frac{3}{8} \times 77^{2}$   
=  $265.1 \text{ cm}^{2}$  (to idec. pl)

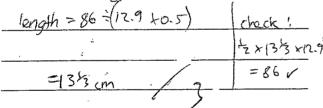


4. A kite is inscribed in a rectangle whose dimensions are 70 cm and 33 cm. What is the area of the kite?

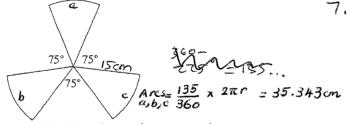




A rhombus has an area of 86 cm<sup>2</sup>. One diagonal is 12.9 cm long. Find the length of the other diagonal.



6. The figure below has been cut out of a circular sheet of cardboard of radius 15 cm.



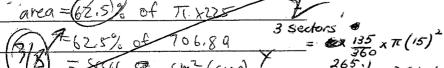
Calculate the perimeter, to 4 significant figures. perimeter

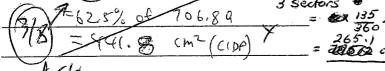
$$\pi \times 30 = 94.75 = Arcs + 6 \times 15 \text{ cm}$$

$$94.25 - 67.5\% = 35.343 + 90$$

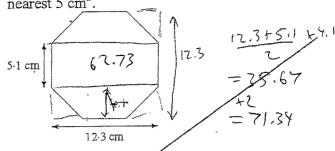
$$P = 35.34 \text{ cm} = 125.3 \text{ (to 4 s.f.)}$$

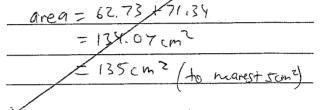
Calculate the area, to 1 decimal place.

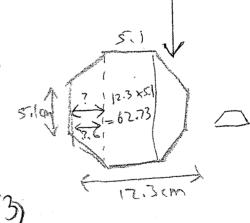




7. Find the area of the regular octagon, to the nearest 5 cm<sup>2</sup>.







$$12.3-5.1$$
 = 3.6  
area = 62.73 + 62.64 / (  
= 125.37 cm ) / (  
= 125 cm² (to regrest 5 cm²)

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