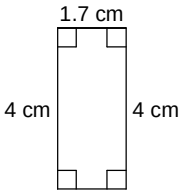
Math 9: Unit 5 Measurement Name_____

Homework #1 - Perimeter and Area of 2D Figures

Date_____ 5A____

Find the perimeter (if possible) and area of each.

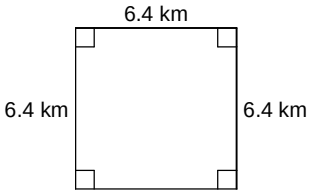
1)



$A = 6.8\ cm^2$

$p = 11.4\ cm$

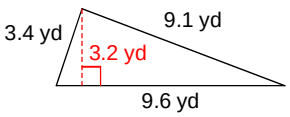
2)



$A = 40.96\ km^2$

$p = 25.6\ km$

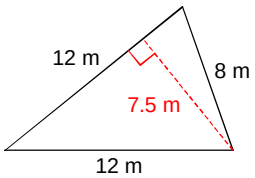
3)



$A = 15.36\ yd^2$

$p = 22.1\ yd$

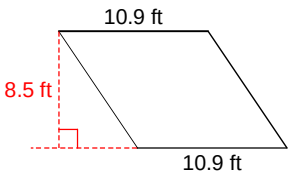
4)



$A = 45\ m^2$

$p = 32\ m$

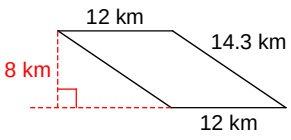
5)



$A = 87.2\ ft^2$

$p =$ not enough info

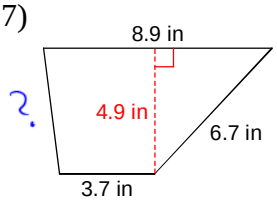
6)



$A = 96\ km^2$

$p = 52.6\ km$

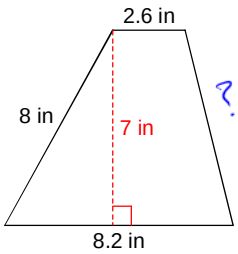
7)



$A = 30.87\ in^2$

p = not enough info

8)

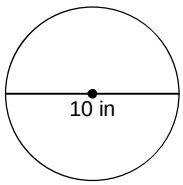


$A = 37.8\ in^2$

p = not enough info

Find the cirumference and area of each circle. Round your answer to the nearest tenth.

9)

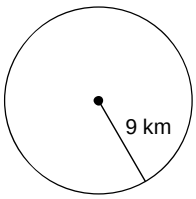


$r = 5$

$A = 78.5\ in^2$

$C = 31.4\ in$

10)



$A = 254.34\ km^2$

$p = 56.52\ km$

Use the appropriate formula to solve for the missing measurement.

11) A rectangle has a length of 432mm and an area of 657,504 mm squared. What is the width of the rectabgle?

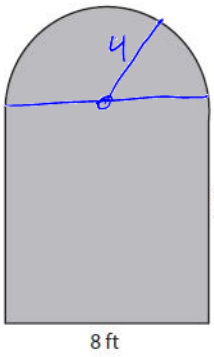
$w = 1522\ mm$

12) A trapezoid has an area of $150m^2$. It has a height of 10m and the top line is 6m. What is the length of the base (bottom line)?

$b = 24m$

Calculate the area of the compound shapes:

13.

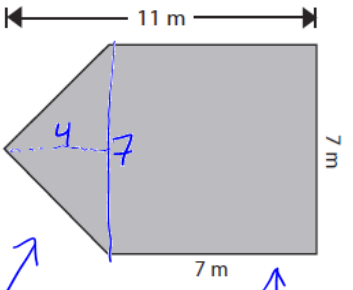


$A = 25.12 \text{ ft}^2$

$A = 96 \text{ ft}^2$

Total $A = 121.12 \text{ ft}^2$

14.



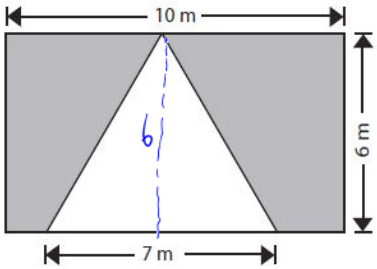
$A = 14 \text{ m}^2$

$A = 49 \text{ m}^2$

Total $A = 63 \text{ m}^2$

Calculate the area of the shaded regions.

15.



$A_{\square} = 60\ m^2$

$A_{\triangle} = 21\ m^2$

Net Area $= 39\ m^2$

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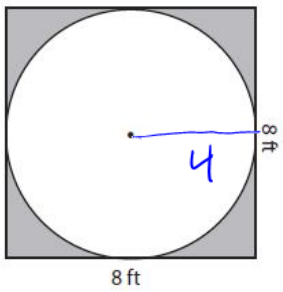

$A_{\square} = 64\ ft^2$

$A_{o} = 50.24\ ft^2$

Net Area $= 13.76\ ft^2$