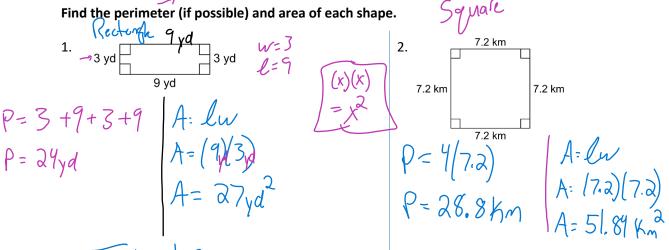
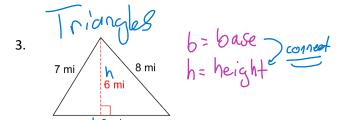
## Math 9 - Unit 4: Measurement

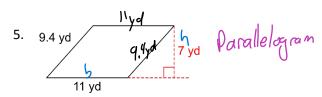
## Lesson #4.1: Perimeter and Area of 2D Figures

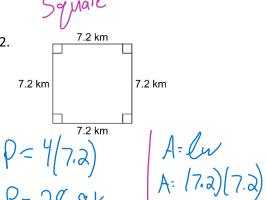
Learning Goal: We are learning to calculate the perimeter, circumference, and area for common 2D simple and compound shapes. all sides

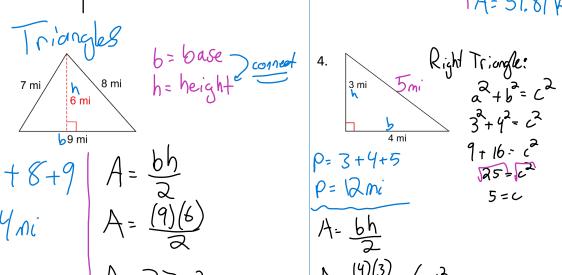


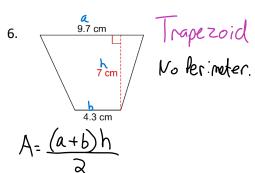


$$P = 7 + 8 + 9$$
  $A = \frac{bh}{2}$   
 $P = 24mi$   $A = \frac{(9)(6)}{2}$   
 $A = 37mi^2$ 









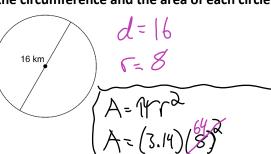
 $A = \frac{(4)(3)}{3} = 6 mi^2$ 

MTH1W

per meter of a circle

Find the circumference and the area of each circle.

7.



= And

(=2(3.14)(8)=50.24 Km

Use the appropriate formula to find the missing piece.

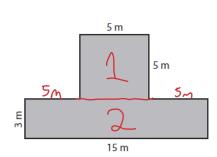
9. A triangle has a height of 22cm and an area of H 143 $cm^2$ . What is the length of the base?

$$A = \frac{bh}{a}$$

$$13 = b$$

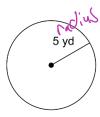
Find the area of the compound figures.

11.



$$A = A_1 + A_2$$
  
 $A = 25 + 45$   
 $A = 70m^2$ 

8.



10. A large pizza has an area of 201in<sup>2</sup>. What is the diameter, in inches, of the pizza.

$$\frac{201}{3.14} = \frac{(3.14)}{3.14}$$

radiw = 8 in



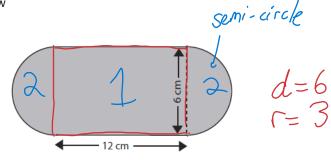
the diameter of the large

$$A_{1} = lw$$
 $A_{2} = lw$ 
 $A_{3} = lw$ 
 $A_{4} = (5)(5)$ 
 $A_{5} = (15)(3)$ 
 $A_{6} = 35m^{2}$ 
 $A_{6} = 45m^{2}$ 

Medium has diameter of 12in

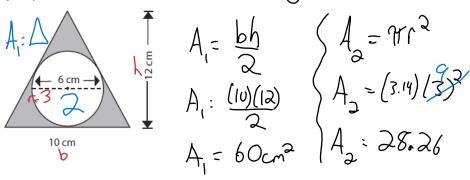
$$A = (3.14) \begin{pmatrix} 36 \\ 6 \end{pmatrix}$$

12.



$$A_{1} = lu$$
 $A_{2} = 4r^{2}$ 
 $A_{3} = (3.14)[3]$ 
 $A_{4} = 72cm^{2}$ 
 $A_{5} = 28.26cm^{2}$ 

13. Find the area of the shaded region.



## **Success Criteria:**

- I can find the perimeter and area of a square, rectangle, triangle, parallelogram, or trapezoid
- I can find the circumference and area of a circle
- I can find the area of compound shapes by breaking them down into simpler shapes
- I can, if given the area, find another missing dimension