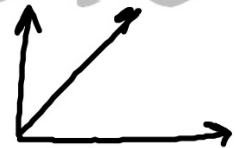


# April 16, 2015

5<sup>th</sup>  
6<sup>th</sup>

Starter



1. Adjacent Angles - two angles that share a common side and a common vertex
2. Supplementary Angles - angles that add up to  $180^\circ$

3. Ray - a line with an arrow on one end



4. Square - 4-sided polygon with 4 right angles and congruent sides
5. Coefficient - the number in front of the variable

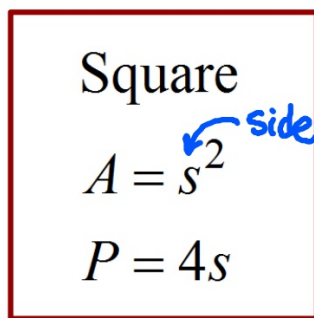
$2x$

Gaze

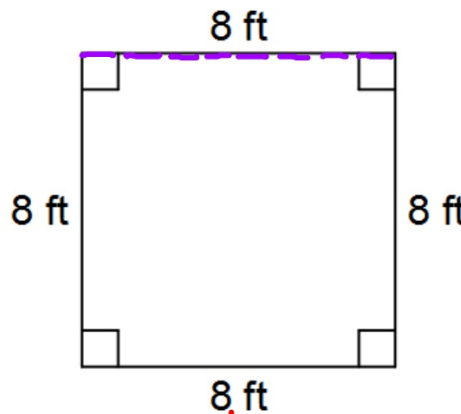
## 4/16 - Area and Perimeter/Circumference

Find the area of each and perimeter of each, if possible.

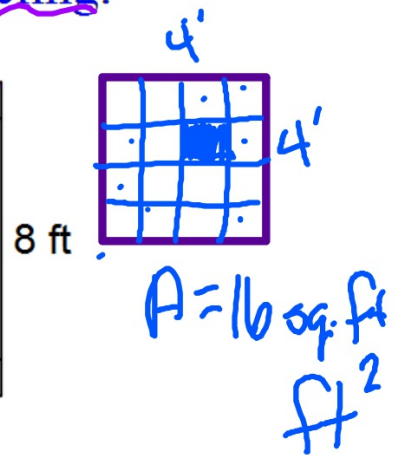
Show all of your work using formulas,  
substitution, solving and labeling.



$$\begin{aligned} A &= s^2 \\ &= 8^2 \\ &= 64 \text{ ft}^2 \end{aligned}$$



$$\begin{aligned} P &= 4s \\ &= 4 \cdot 8 \\ &= 32 \text{ ft} \end{aligned}$$



Rectangle

$\leftarrow$  Length (longer)

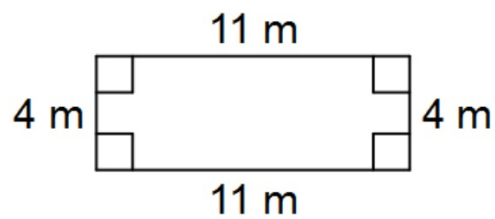
$A = LW$   $\leftarrow$  Width

$$P = 2L + 2W$$

$$P = 2(L + W)$$

$$\begin{aligned} A &= LW \\ &= 11 \cdot 4 \\ &= 44 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} P &= 2L + 2W \\ &= 2 \cdot 11 + 2 \cdot 4 \\ &= 22 + 8 \\ &= 30 \text{ m} \end{aligned}$$



Parallelogram

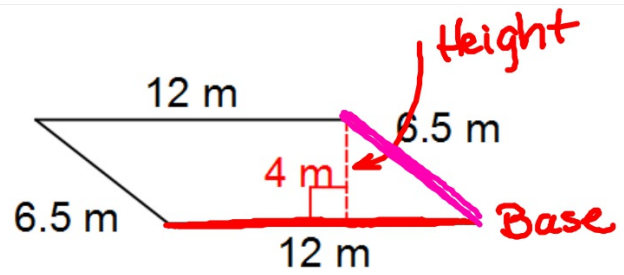
$$A = BH$$

Base ← Height

$$P = 2B + 2S$$

← Slant height

$$\begin{aligned} A &= BH \\ &= 12 \cdot 4 \\ &= 48 \text{ m}^2 \end{aligned}$$



$$\begin{aligned} P &= 2B + 2S \\ &= 2 \cdot 12 + 2(6.5) \\ &= 24 + 13 \\ &= 37 \text{ m} \end{aligned}$$

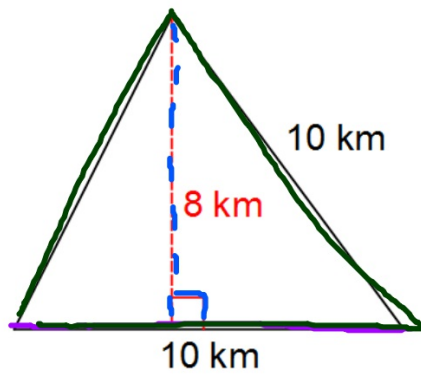
Triangle

$$A = \frac{1}{2}bh$$

base  
height

$P =$  add all sides  
 $a + b + c$

$$\begin{aligned} A &= \frac{1}{2}bh \\ &= \frac{1}{2} \cdot 10 \cdot 8 \\ &= 40 \text{ km}^2 \end{aligned}$$



$$\begin{aligned} P &= a + b + c \\ &= 10 + 10 + 10 \\ &= 30 \text{ km} \end{aligned}$$

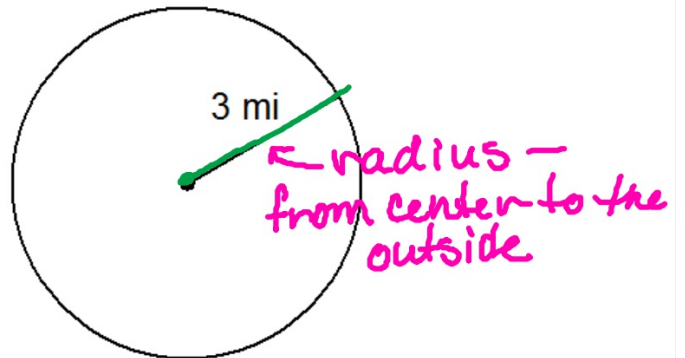
Find the area and circumference of each. Round to the nearest tenth.

Circle

$$A = \pi r^2$$

$$C = 2\pi r$$

$$\pi = 3.14$$



$$\begin{aligned} A &= \pi r^2 \\ &= (3.14) 3^2 \\ &= (3.14) 9 \\ &= 28.3 \text{ mi}^2 \end{aligned}$$

$$3.14 \times 9 = 28.26$$

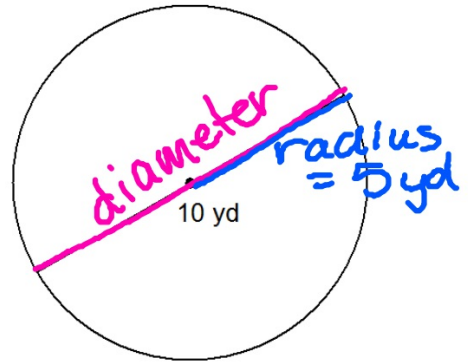
$$\begin{aligned} C &= 2\pi r \\ &= 2(3.14) 3 \\ &= 18.8 \text{ mi} \end{aligned}$$

$$2 \times 3.14 \times 3 = 18.84$$

Circle

$$A = \pi r^2$$

$$C = 2\pi r$$



$$\begin{aligned} A &= \pi r^2 \\ &= (3.14) 5^2 \\ &= (3.14) 25 \\ &= 78.5 \text{ yd}^2 \end{aligned}$$

$$\begin{aligned} C &= 2\pi r \\ &= 2(3.14) 5 \\ &= 31.4 \text{ yd} \end{aligned}$$

$$3.14 \times 25 = 78.5$$

*Homework*

Lilac WS 1

*Due Tuesday*