



**AW Math 11**

**Day 1: Area of Basic Shapes (Review)**

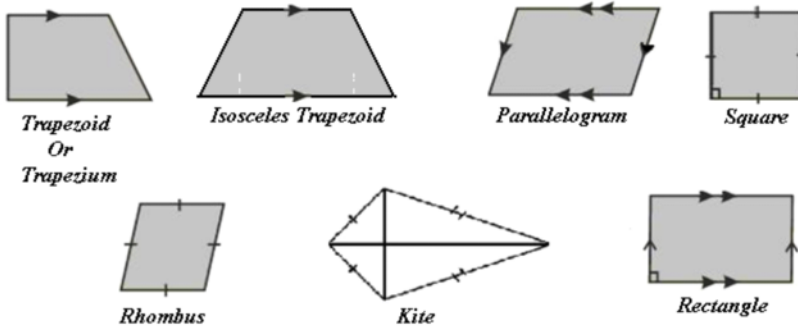
Perimeter: Distance around a shape    
 $P = 2w + 2L$

Circumference: The perimeter of a circle    
 $C = \pi d$

Area: # of square units in a 2D shape (ft<sup>2</sup>, cm<sup>2</sup>)

**Two-Dimensional (2-D) Figures:**

SOME COMMON 2-D SHAPES



Polygon: A flat shape containing 3 or more straight lines

Regular polygon: All angles and sides will be equal


Ex. Square, equilateral triangle




**Formula:** A statement, especially an equation, of a fact, rule, principle, or other logical relation.

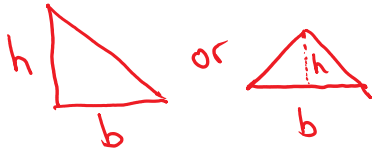
Here are some basic *geometry formulas* you should memorize:


**Parallelogram**  
 $A = b \times h$

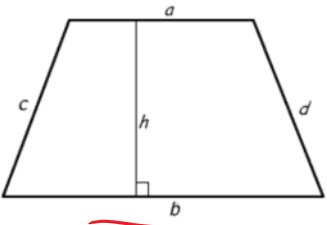
**Rectangle**  
  
 $A = L \times W$

**Square**  
  
 $A = s^2$  or  $A = L \times W$

**Triangle**  
 $A = \frac{b \times h}{2}$



**Circle**  
 $A = \pi r^2$   
  
 $r = \frac{d}{2}$

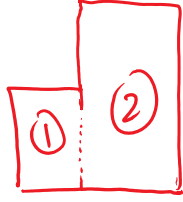
**Trapezoid**  
 Trapezoid  
 Perimeter:  $p = a + b + c + d$   


Area  $A = \frac{(a+b)h}{2}$  or  $A = \frac{1}{2}(a+b)h$

**Some geometry tips:**

- 1) Choose the correct formula for situation, and start your answer with it.
- 2) Sub in the values that are known (from information in the question).
- 3) Calculate the unknown. This may involve simple adding, multiplying, dividing, squaring, etc. OR you may need to work backwards (a powerful method for this is algebra).
- 4) Insert units on your answer if you haven't kept them throughout the work.

**Linear measure** (measurement of a length) → just the unit ex. km  
**Area** (space inside a flat boundary) → unit squared ex. m<sup>2</sup>  
**Volume** (amount of 3-D space in an object) → unit cubed ex. cm<sup>3</sup>



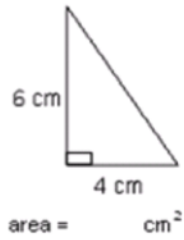
$① + ② = \text{Area}$

Assignment  
Pg 4-5

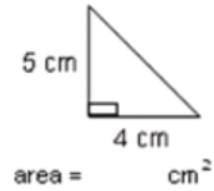
**Day 1 Assignment: Area of Basic Shapes**

Calculate the areas for each of the 2-D shapes below. Show your work.

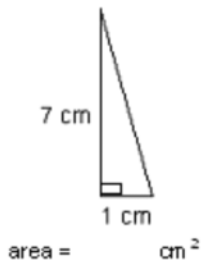
a)



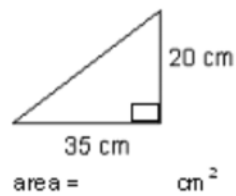
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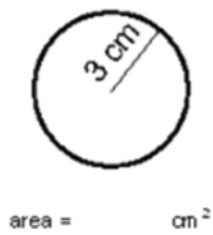
c)



d)



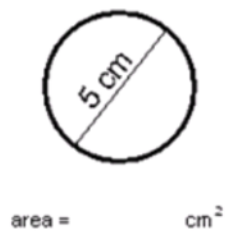
e)



f)



g)



h)

