Learning Center Schoolcraft College

Jump Start Session 3

The Beginning: Vocabulary

• A denotes a _____ which occupies space but has no dimension.

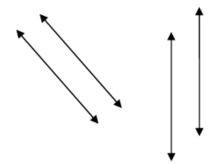
AB denotes a ______ which extends infinitely in both directions.

AB denotes a ______ which extends infinitely in one direction.

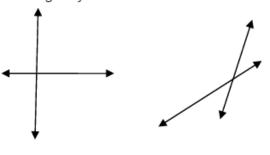
AB denotes a ______ which has a fixed length.

If you have more than one line, ray, or line segment, two things can happen:

The lines are _____ meaning, they *never* meet/intersect.

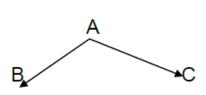


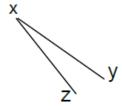
The lines are ______ meaning they do meet/intersect.



<u>Angles</u>

When two lines or rays intersect, they form angles that can be named and classified. Naming Angles:





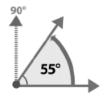
Draw angle EFG:

Naming Angles cont.

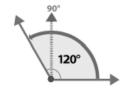


When two lines meet and form a 90° angle, the lines are _____

and form a ______

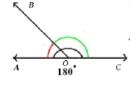


When an angle's measure is greater than 0° but less than 90° the angle is called an

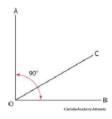


When an angle's measure is greater than 90° but less than 180° the angle is called

an ______



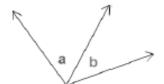
Two angles, whose sum is 180°, are called:



Two angles, whose sum is 90°, are called:______

Classifying Angles

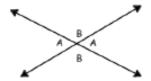
Angles located next to each other and sharing a common side are called ______

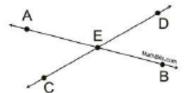




Angles located directly across from each other are called_____

Vertical angles are ______, meaning _____



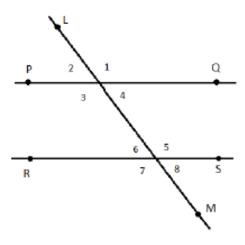


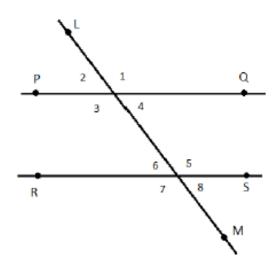
More Special Angles

A line that intersects two parallel lines is called a _____

These lines form special angle relationships.

PQ is parallel to RS

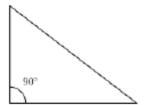




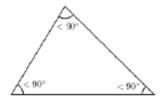
Corresponding angles are located in the same position compared to the transversal.					
Corresponding angles:					
Opposite exterior angles are located outside the parallel lines on opposite	sides of the transversal.				
Opposite exterior angles:	and are				
Opposite interior angles are located inside the parallel lines on opposite side	des of the transversal.				
Opposite interior angles:	and are				
Name 2 pairs of vertical angles:					
Name 2 pairs of adjacent angles:					
Name two pairs of supplementary angles:					

Polygons - Classifying Triangles

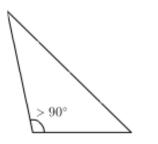
By Angle Measure



Right Triangle_____

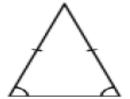


Acute Triangle_____

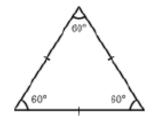


Obtuse Triangle_____

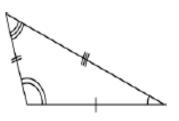
By Side Measure



Isosceles Triangle_____



Equilateral Triangle_____

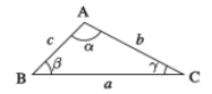


Scalene Triangle_____

Properties of Triangles

A triangle has ____sides, which form ____

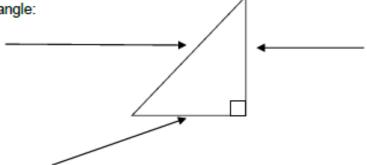
The sum of these angles must always add up to _____



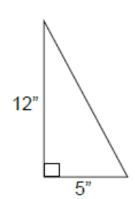
The Pythagorean Theorem $a^2 + b^2 = c^2$

The Pythagorean Theorem is used to find the length of a side of ______ Warning: This can only be used with right triangles.

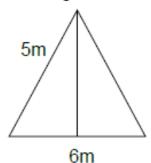
Parts of a right triangle:



Find the length of the hypotenuse



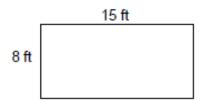
Find the height of the triangle

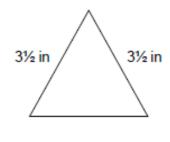


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Perimeter refers to the _____

Think: Perimeter of a polygon=





3¾ in

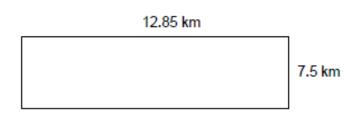
AREA

Area measures the ______of a geometric figure. Think:_____

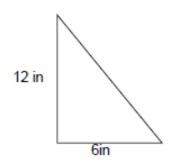
Area is ALWAYS expressed in _____

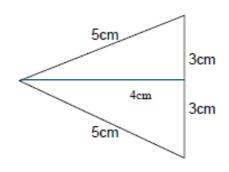
Area of a square or rectangle =

10yd		
	12yd	

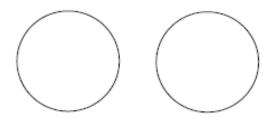


Area of a triangle=



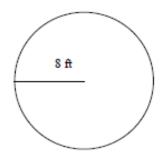


Circumference, Area, Circles & that thing they call pi



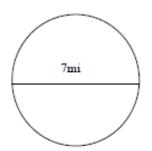
 π is the ratio of a circle's ———— $\pi \approx$

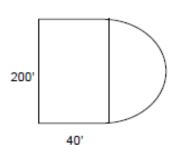
Circumference (perimeter) of a circle=



Find the circumference of a circle with diameter $\frac{1}{4}$ mm.

Area of a circle=





Converting Units (Dimensional Analysis)

