Unit #5 Fact Sheet Triangle Basics

Triangles by Sides

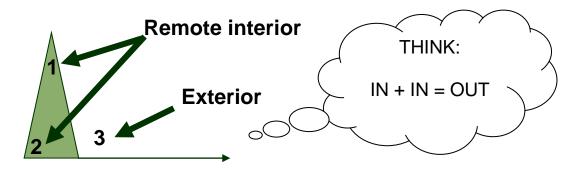
- Equilateral
- Isosceles
- Scalene

Triangles by Angles

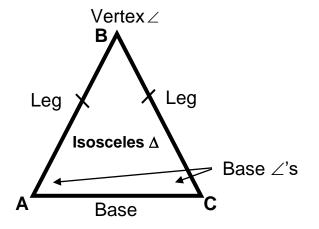
- Acute
- Right
- Obtuse
- Equiangular

Triangle Theorems

- <u>Triangle Sum Theorem</u>: The sum of the measures of the angles of a triangle is 180°.
- Exterior Angle Theorem: The measure of an exterior angle of a triangle is equal to the sum of the measures of the two remote interior angles.



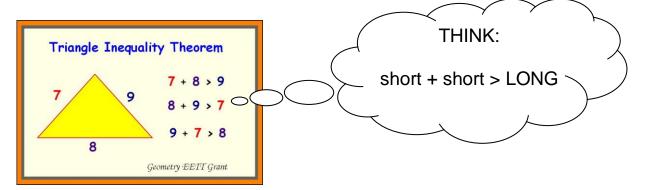
• <u>Isosceles \triangle Theorem</u>: If two sides of a \triangle are \cong , then the \angle 's opposite those sides are \cong .



If $\overline{AB} \cong \overline{BC}$, then $\angle \underline{A} \cong \angle \underline{C}$ If $\angle A \cong \angle C$, then $\overline{AB} \cong \overline{BC}$

Triangle Inequality Theorem:

Any side of a triangle is always shorter than the sum of the other two sides.



Other Triangle Facts

The largest side is opposite the *largest angle*, and the smallest side is opposite the *smallest angle*.

SPECIAL SEGMENTS IN TRIANGLES

Angle Bisector	
Altitude	
Median	
Perpendicular Bisector	