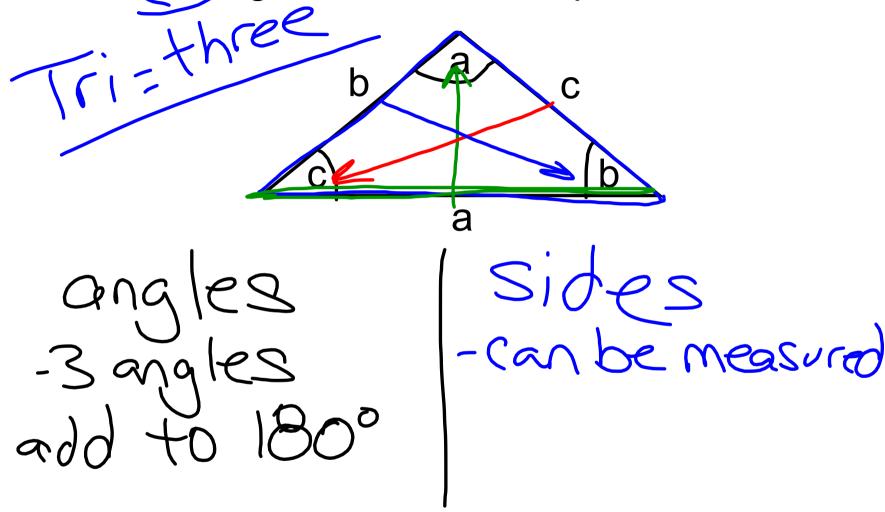
#### TODAY'S AGENDA: October 17th+

- Work on Khan Academy Mission:
- Complete Mission Foundation Skills
- Today's Objective: Whole-Group Lessons:
- Triangles and Polygons
- Standards:
- CCSS.MATH.CONTENT.HSG.CO.A.1:
- Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.

Continue With Your Mission Assignments

# Triangles and Their Properties



Types of Trionales

Triangles

Exterior Angle of a Triangle An exterior angle is equal 44=41+42

Triangle Side Lengths Rule

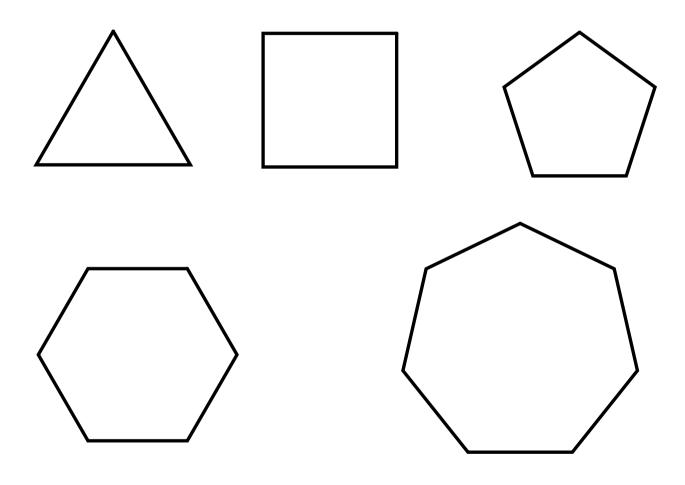
Def: fly side of a triangle
must be less than the
sum of the the other two
sides, and greater than the
difference of the other two

 $a \le b + c$   $a \ge b + c$   $a \ge$ 

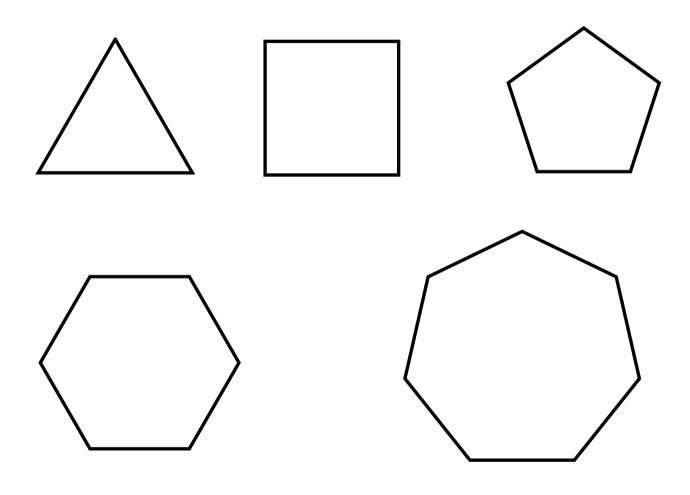
Area of a Triangle

$$A = \frac{1}{2}bh$$
 $A = \frac{1}{2}(4)(6)$ 
 $A = \frac{1}{2}(24)$ 
 $A = 12$ 

### Polygons and Their Properties



### Polygons and Their Properties



#### Parallelograms and Their Properties



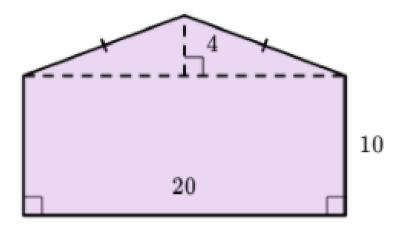
#### Rectangles, Squares, and Rhombus

Rectangles	Squares	Rhombus

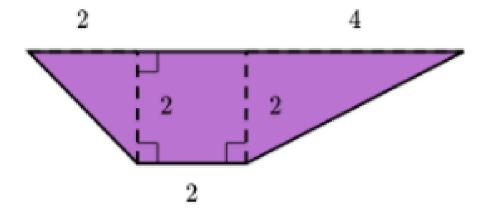
#### Area of Trapezoids



## Area of Composite Shapes



#### Area of Composite Shapes



#### Skills You Should Be Working on:

- Finding angle measures using triangles
  - 2. Angles of a polygon
  - 3. Triangle side length rules
    - 4. Quadrilateral types
    - 5. Quadrilateral angles
- 6 Area of triangles
  - 7. Area of parallelograms
  - 8. Area of trapezoids
  - 9. Area of composite shapes