Welcome back!!



Warm-up

- 1. What has keys but can't open locks?
- 2. I'm tall when I'm young, and I'm short when I'm old. What am I?
- 3. What has hands but can't clap?
- 4. I'm not alive, but I grow; I don't have lungs, but I need air; I don't have a mouth, but water kills me. What am I?
- 5. What can travel around the world while staying in the corner?
- 6. What comes once in a minute, twice in a moment, but never in a thousand years?
- 7. I have a neck but no head. What am I?
- 8. What has a face and two hands but no arms or legs?
- 9. I'm light as a feather, but even the world's strongest man couldn't hold me for much longer. What am I?

ANSWERS

- 1. A piano
- 2. A candle
- 3. A clock
- 4. Fire
- 5. A stamp
- 6. The letter "M"
- 7. A bottle
- 8. A clock
- 9. Your breath

Polygons





- A **polygon** is a 2D shape made up of straight lines, where the lines connect to form a closed figure.
- The simplest polygon is a **triangle** (3 sides), but polygons can have more sides.
- Types of Polygons:
 - > Triangles (3 sides)
 - > Quadrilaterals (4 sides): Include squares, rectangles, trapezoids, and parallelograms.
 - > Pentagons (5 sides)
 - > Hexagons (6 sides)
 - > **Heptagons (7 sides)** and beyond.



Calculating Perimeter:

- Perimeter is the total distance around the outside of a shape
- To calculate perimeter:
 - > Add up all the side lengths (P = s+s+s...)
 - > REMEMBER: Different shapes have a different number of sides

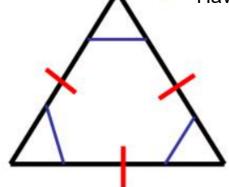
TODAY: TRIANGLES

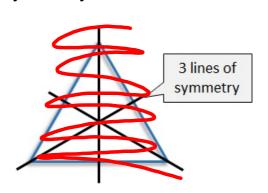


-Have 3 equal side lengths

-Have 3 equal angles (all angles are 60°)

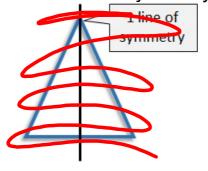
-Have 3 lines of symmetry

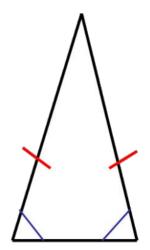




Isosceles Triangle

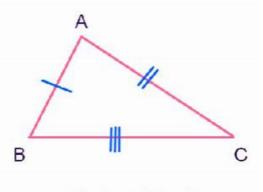
- -Have 2 equal side lengths
- -Have 2 equal angles
- -Have 1 line of symmetry



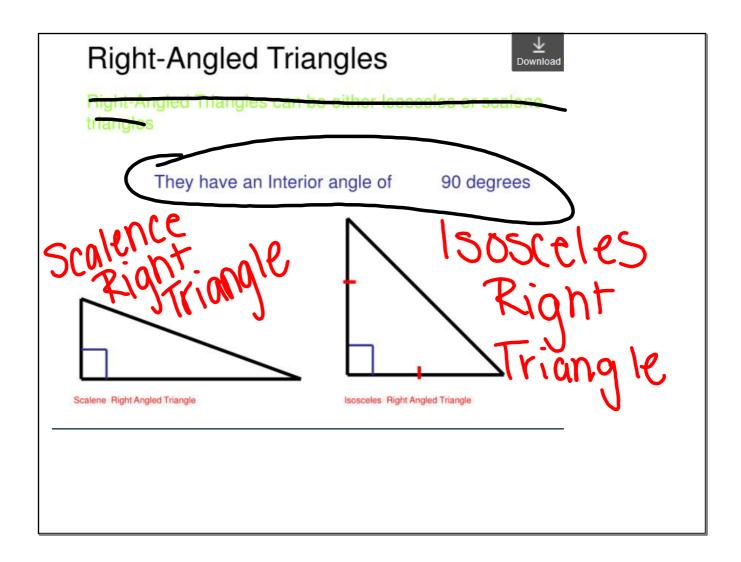


Scalene Triangle

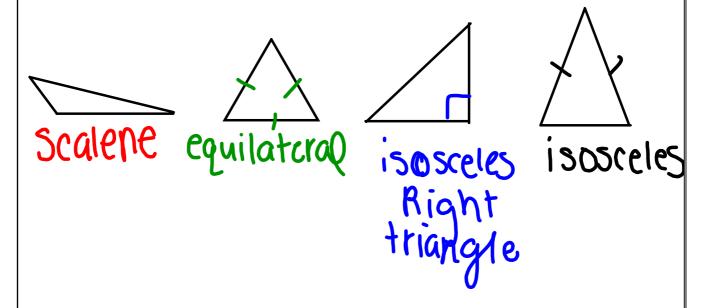
- -Have NO equal side lengths
- -Have NO equal angles
- -Have NO line of symmetry



Scalene triangle



Based on our notes, lets identify the triangles (we do not have our rulers so we will do our best to guess)



Homework





Practice

1. Name each triangle as isosceles, equilateral, or scalene. How did you decide which name to use?

a)





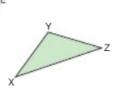


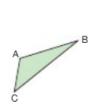


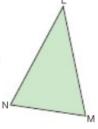
2. a) Which triangles are isosceles? How do you know?











- b) For each isosceles triangle, name the sides that have the same length, and the angles that have the same measure.
- c) Which triangle is equilateral? How do you know?
- d) Which triangle is not isosceles and not equilateral? Which type of triangle is it?
- 7. Identify each triangle as equilateral, isosceles, or scalene. Which strategy did you use?

a)



b)





