## Similar Triangles – Part 1 <sub>6.4</sub>

## **Geometry Terms and Symbols**

Symbol	Meaning
	Similar = same shape and different size.
	Similar = corresponding angles are the same size and corresponding
	sides are scaled by the same SF.
	Congruent = same shape and same size.
	Congruent = corresponding angles are the same and corresponding
	sized are the same.
	Parallel = never intersecting and with the same slope.
	Perpendicular = meeting or intersecting at 90° angle.

## **Vertical Angles**

- > Vertical angles are formed when two lines intersect.
- Vertical angles are always congruent.
- Vertical angles share a vertex (a point) but nothing else.

Sum of All Interior Angles in a Triangle drawn in 2D is always \_\_\_\_\_

Supplementary Angles = 2 angles that add	l up to
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Complementary Angles = 2 angles that add up to \_\_\_\_\_

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Angle	Diagram	Property
Right		
Straight		
Acute		
Obtuse		
obtabe		
Reflex		
Kellex		

## **Congruent Triangles**

- Congruent triangles have the same shape and the same size
  You can determine if given triangles are congruent by in 3 different ways. The way you use depends on the information known about the triangles.

	Known Information	Example
SSS	side-side-side 3 pairs of corresponding sides are the same size	
ASA	angle-side-angle 2 pairs of corresponding angles and 1 pair of corresponding sides are congruent	
SAS	side-angle-side 1 pair of corresponding angles and 2 pairs of corresponding sides are congruent	