



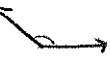
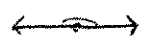
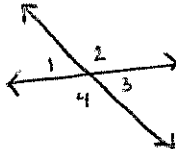
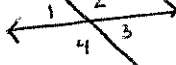
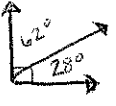
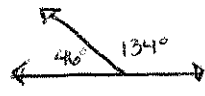
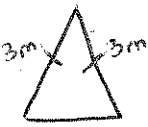

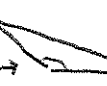
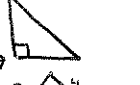






GEOMETRY VOCABULARY

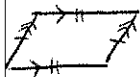
WORD	EXAMPLE	DEFINITION
1 ANGLE RELATIONSHIPS		
Degrees:	90° 	Units that angles are measured in
Vertex:		Where the sides of an angle meet
Right Angle:		An angle that measures exactly 90°
Acute Angle:		An angle that measures less than 90°
Obtuse Angle:		An angle that measures between 90° and 180°
Straight Angle:		An angle that measures exactly 180°
Congruent:		SAME (equal) ($\angle 2 = \angle 4$)
Vertical:		OPPOSITE angles ($\angle 1$ and $\angle 3$)
Adjacent:		Angles that share a common vertex and common side (angles next to each other) ($\angle 1$ and $\angle 4$)
10-2 COMPLEMENTARY & SUPPLEMENTARY ANGLES		
Complementary Angles:		Angles that have a sum of 90°
Supplementary Angles:		Angles that have a sum of 180°
10-4 TRIANGLES		
Triangle:		Figure with 3-sides
Congruent Segments:		Sides with <u>SAME</u> length
Acute Triangle:		<u>All acute</u> angles
Obtuse Triangle:		Has <u>one obtuse</u> angle
Right Triangle:		Has <u>one right</u> angle
Scalene Triangle:		<u>NO</u> congruent sides (all different lengths)
Isosceles Triangle:		Has <u>at least 2</u> congruent sides
Equilateral Triangle:		Has <u>3</u> congruent sides

10-6 QUADRILATERALS

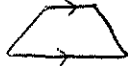
Quadrilateral:



Parallelogram:



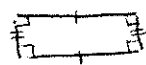
Trapezoid:



Rhombus:



Rectangle:



Square:



Is a closed figure with **4 sides and 4 angles**

Quadrilateral with **both pairs** of opposite sides parallel and congruent

Quadrilateral with exactly one pair of parallel sides

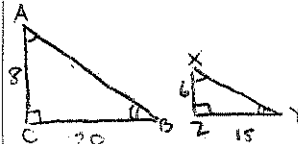
A parallelogram with 4 congruent sides

Parallelogram with 4 right angles

Parallelogram with 4 right angles and 4 congruent sides

10-7 SIMILAR FIGURES

Similar Figures:



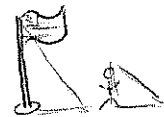
Corresponding Sides:

\overline{AC} and \overline{XZ}

Corresponding Angles:

$\angle A$ and $\angle X$

Indirect Measurement:



Figures that have the **same shape**, but **not necessarily the same size**

The **sides** of similar figures that "match"

The **angles** of similar figures that "match"

Uses similar figures to find the length, width, or height of objects that are too difficult to measure directly

10-8 POLYGONS AND TESSELLATIONS

Polygon:



Regular Polygon:



Pentagon:



Hexagon:



Heptagon:



Octagon:



Nonagon:



Decagon:



Tessellation:



A simple, **CLOSED** figure formed by **3 or more straight line segments**

Has **all sides congruent** and **all angles congruent**

5 sides $\rightarrow (5 - 2) \times 180 = 540^\circ$

6 sides $\rightarrow (6 - 2) \times 180 = 720^\circ$

7 sides $\rightarrow (7 - 2) \times 180 = 900^\circ$

8 sides $\rightarrow (8 - 2) \times 180 = 1080^\circ$

9 sides $\rightarrow (9 - 2) \times 180 = 1260^\circ$

10 sides $\rightarrow (10 - 2) \times 180 = 1440^\circ$

A repetitive pattern of polygons that fit together with no overlaps or holes