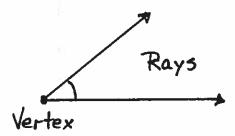
ANGLES Instructional Sheet

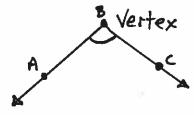
Angles are fun to work with, and you will notice angles all around you!

It is important that you understand the PARTS of an angle and the 7 DIFFERENT types.

The Parts of an Angle:

- an angle is made up of 2 rays that join at a point called a vertex
- a RAY is a straight extending from a point to infinity (
- a VERTEX is a point where 2 or more lines or edges meet

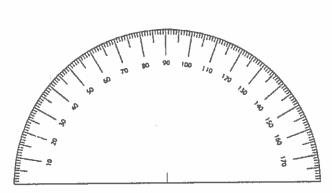




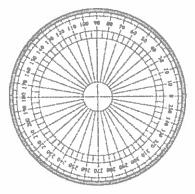
Angle ABC is written

How are angles measured? - by a Protractor!

- protractors can range from 0° 180° (half circle) or 0° 360° (full circle)

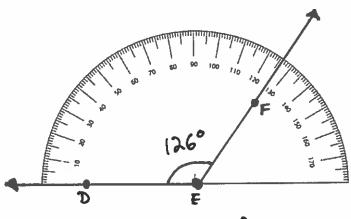




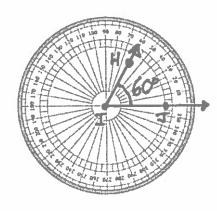


Full Circle Protractor

- you measure the angle by placing the vertex (joining point) in the center of the protractor, and line up one of the rays along the bottom (with a half circle protractor) or the zero (0) line (with the full circle protractor). You then line up the second ray with the number value, and that gives you the degree value (ie. 35°)



LDEF = 126°

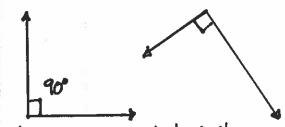


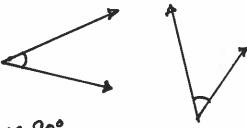
LHIJ=60°

The 7 Types of Angles:

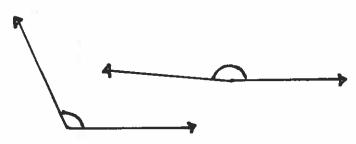
1) Right Angle (has a value of 90%)

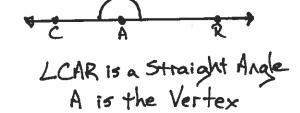
2) Acute Angle (has a value less than 90°)



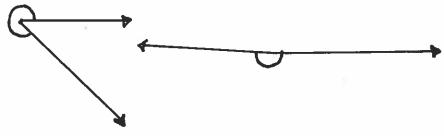


- *The square symbol at the vertex means 90°
- 3) Obtuse Angle (has a value between 90° and 180°)
- 4) Straight Angle (has a value of 180°)

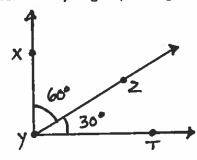




5) Reflex Angle (has a value between 180° and 360°)

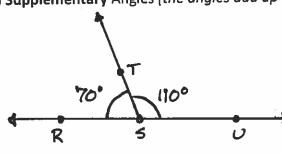


6) Complementary Angles (the angles add up to 90°)



LZYT and LXYZ are Complementary because together they equal 90° LXYT = 90° (RIGHT Angle)

7) Supplementary Angles (the angles add up to 180%)



Together they are Supplementary as they equal 180°

LRSU = 180° (STRAIGHT Angle)