Name			
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Measuring Angles

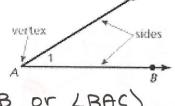
lesson Objective IWBAT find measures of and INBAT find measures classify different types of angles.

Naming Angles

Angle: An angle is a set of points consisting of 2 diff. rays that have the same endpoint called the <u>yevtex</u>.

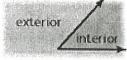
The <u>rays</u> are the <u>Sicus</u> of the angle.

Mame: Duse vertex (LA)



2 use points on (LCAB or LBAC)

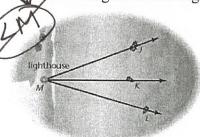
3 use # inside the (L1)



Period &

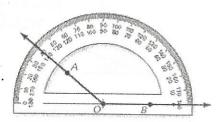
***If more than one angle has the save vertex, the name $\angle(vertex\ point)$ cannot be used!!!

Example: 1. A lighthouse keeper measures the angles formed by the lighthouse at point M and 3 boats. Name 3 angles in the diagram.



Measuring Angles

<u>Protractor Postulate</u>: The measure of $\angle AOB$ (\underline{MLAOB}) is equal to the difference between the real numbers matched with \overrightarrow{OA} and \overrightarrow{OB} .



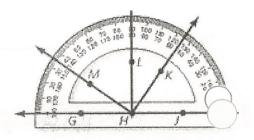
Classifying Angles

Acute Angle	Right Angle	Obtuse Angle	Straight Angle
A	A	A	A
0° <angle 90°<="" <="" td=""><td>=90°</td><td>90° < angle < 180°</td><td>=180°</td></angle>	=90°	90° < angle < 180°	=180°

a. ∠GHK

b. ∠*JHL*

c. ∠LHK

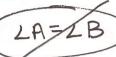


Identifying Congruent Angles

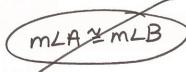
Congruent Angles: Two angles are congruent when they have the Same degree measure

MEASURES of angles are EQUAL

A wse arcs to show B



LAZLB



Angle Addition Postulate

Words	Symbols	_
	If P is in the <u>inside</u> of $\angle RST$, then	1
If P is in the <u>inside</u> of $\angle RST$, then the measure of $\angle RST$ is equal to the <u>sum</u> of the measures of and $\angle PST$.	merso me	

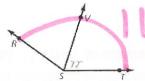
Example:

3. Find $m \angle ABC$.

MLABC = $m \angle ABD + m \angle DBC^{4}$. $m \angle RST = 114^{\circ}$. Find $m \angle RSV$.

A 1 D 21°

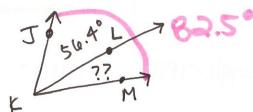
MLABC = MLABD+MLD MLABC = 37°+21° = 58°



MLRST = MLRSV + MLVST

114 = mLRSU + 72 42° = mLRSU

5. L is in the interior of $\angle JKM$. Find $m\angle LKM$ if $m\angle JKL = 56.4^{\circ}$ and $m\angle JKM = 82.5^{\circ}$. Sketch a diagram first.



MLJKM= MLJKL + MLLKM 82.5°= 56.4° + MLLKM -56.4 -56.4 [26.1°= MLLKM]