

Welcome to Class!!

*Goal: To find and
compare the
measures of
angles*

You will need:

~ Pencil

~ Highlighter

~ Binder

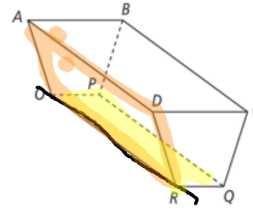
~ Vocabulary Sheet

Homework:

Handout 1.4

Stick Quiz - August 29, 2018

Use the figure to answer the following questions.



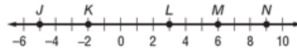
1) Name the intersection of each pair of planes or lines.

- a. Planes ABP and BCD AB
- b. \overline{RQ} and \overline{RO} R
- c. Planes ADR and DCQ DR
- d. Planes BCD and BCQ BC
- e. \overline{OP} and \overline{QP} P

2) Name two planes that intersect in the given line from the above picture.

- a. \overline{RO} RQP & ROA
- b. \overline{CQ} CBP & QRD

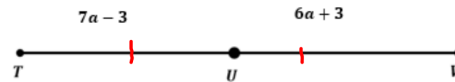
3) Use the number line to find each measure.



- a. LN 6
- b. JL 8

4) U is the midpoint of \overline{TV} . What are TU , UV , and TV ?

$TU = 39$, $UV = 39$ and $TV = 78$

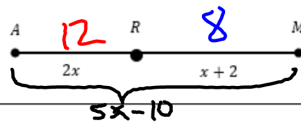


$a = 6$

~~$2x = x + 2$~~

5) If $AM = 5x - 10$, what are AR and RM ?




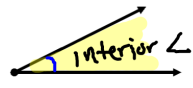

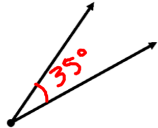
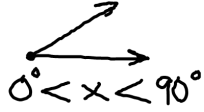

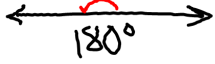
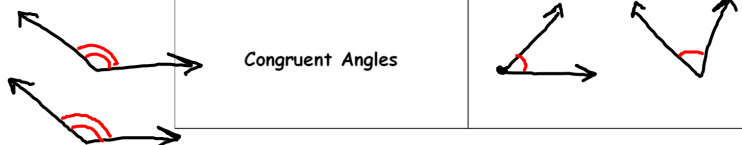
$AR =$ _____ and $RM =$ _____



$$\begin{aligned}
 5x - 10 &= 2x + x + 2 \\
 5x - 10 &= 3x + 2 \\
 +10 & \quad +10 \\
 5x &= 3x + 12 \\
 -3x & \quad -3x \\
 2x &= 12 \\
 \frac{2x}{2} &= \frac{12}{2} \\
 x &= 6
 \end{aligned}$$

Unit 1.4: Measuring Angles

Vocabulary:

Angle 	Formed by two rays with the same endpoint. 
Exterior Angle	
Interior Angle	
Vertex	
Measure of an Angle $m\angle$	
Acute Angle	
Obtuse Angle	
Straight Angle	Straight Line 
Congruent Angles	



On **separate sheet** - When complete put after page with stick quiz

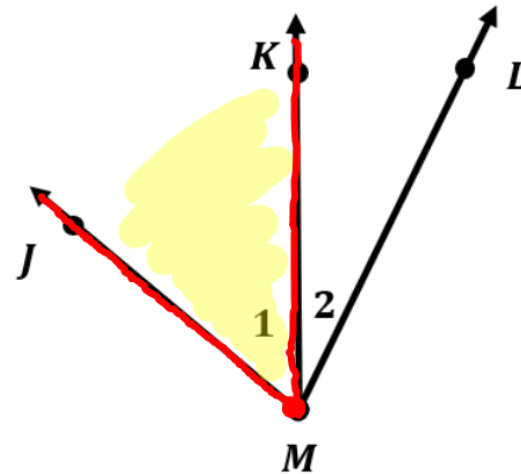
Unit 1.4: Measuring Angles

Example #1: Naming Angles

What are two other names for $\angle 1$?

Vertex goes in the middle!!!

$\angle JMK$
or $\angle K MJ$





Example #2: Naming Angles

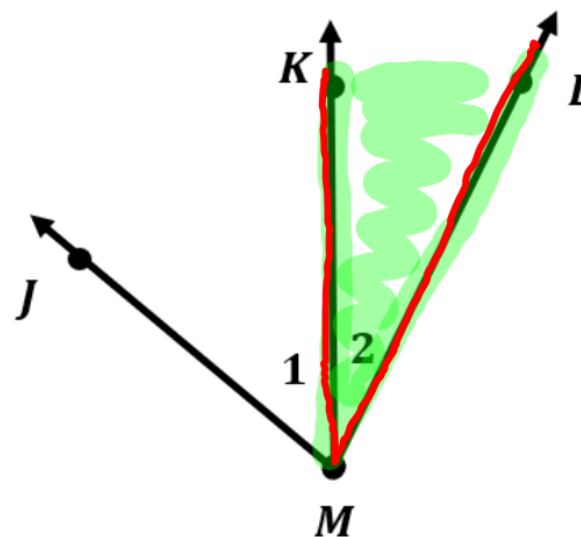
a) What are two other names for $\angle KML$?

$\angle LMK$ or $\angle 2$

a) Would it be correct to name any of the angles $\angle M$?

Explain.

No, because it's not specific enough.



Measuring Angles with a Protractor

The measure of $\angle COD$ is the absolute value of the difference of real numbers paired with \vec{OC} (or c) and \vec{OD} (or d).



$$m\angle COD = |c - d|$$

$$|135 - 35|$$

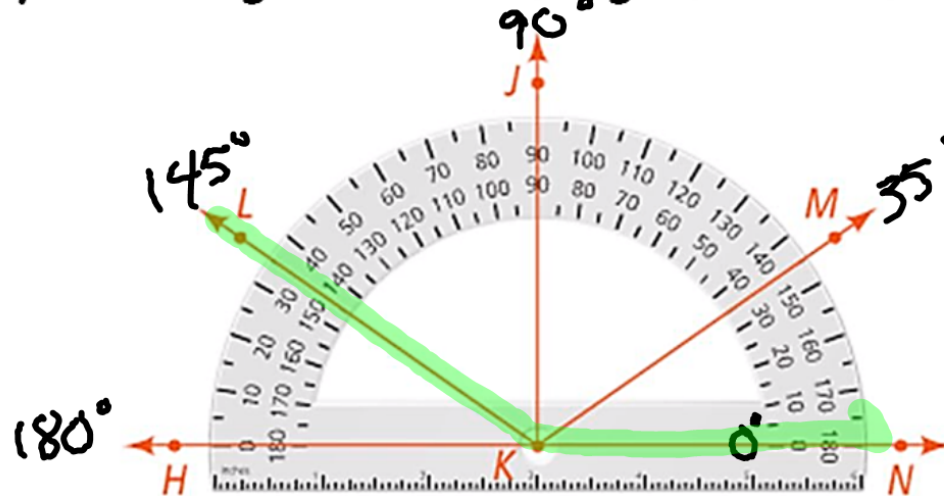
$$|100|$$


$$m\angle COD = 100^\circ$$

Example #3: Measuring and Classifying Angles

What are the measurements of $\angle LKN$, $\angle JKL$ and $\angle JKN$?

Classify each angle as acute, right, obtuse, or straight.



a) $\angle LKN$ obtuse 145°	b) $\angle JKL$ $190 - 145 =$ 55°
c) $\angle JKN$	d) $\angle LKN$ 
e) $\angle HKN$	f) $\angle MKH$

Now what?

Work on:

- Handout 1.4

Must be completed by:

- Thursday 8/30

If you finish early:

See me

I can:

- 1) Find and compare the measures of angles.