

DATE _____

HW: Complementary, Supplementary, Linear Pairs, Straight Angles

Glue the ANCHOR TAB into your composition book. Use a straightedge for all drawings. Answer the questions in your composition book beside and/or underneath each question. Show all work.

1 \overrightarrow{BA} and \overrightarrow{BC} are **OPPOSITE RAYS** ... These rays share a common point B and points A, B, and C are **COLINEAR**, that is all three points lie on the same line.

- Draw & label a picture of these opposite rays.
- What name is given to $\angle ABC$?

2 $\angle KPX$ & $\angle APX$ form a **LINEAR PAIR**.

- Draw & label a picture of these angles.
- What is another name given to these two angles?
- What is the measure of $\angle KPX$ if $m\angle APX = 70^\circ$
- Write and solve an equation to determine the measure of each angle, if $m\angle KPX$ is 12 more than $m\angle APX$. (ATQ)
- Write and solve an equation to determine the measure of each angle, if $m\angle KPX$ is 5 less than 4 times $m\angle APX$, determine the measure of each angle. (ATQ)

3 \overline{MK} lies in the interior of angle $\angle JML$ and $\overline{MJ} \perp \overline{ML}$.

- Draw & label a picture of these angles.
- What is the name given to $\angle JMK$ & $\angle KML$
- If $m\angle KML = 25^\circ$, what is the measure of $\angle JMK$
- Write and solve an equation to determine the measure of each angle, if $m\angle JMK$ is 18 more than $m\angle KML$. (ATQ)
- Write and solve an equation to determine the measure of each angle, if $m\angle JMK$ is 14 less than 3 times $m\angle KML$, determine the measure of each angle. (ATQ)

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