Geometry

1.6 Describing Pairs of Angles

Angle Pairs

Adjacent Angles

What is it like?

- Angles that share a _____ and _____
- Are _____ to each other
- Are not _____ each other

What are examples?

- _____
- _____

Complementary and Supplementary

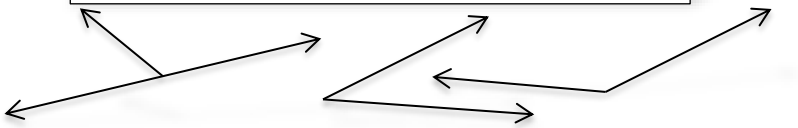
Complementary Angles

- Two angles whose sum is _____

Supplementary Angles

- Two angles whose sum is _____

Complementary and Supplementary Angles do _____ have to be _____

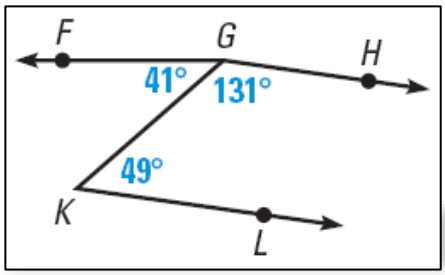


In the figure, name a pair of…

complementary angles,

supplementary angles,

adjacent angles.



Are $\angle KGH$ and $\angle LKG$ adjacent angles? Explain.

Are $\angle FGK$ and $\angle FGH$ adjacent angles? Explain.

Given that $\angle 1$ is a complement of $\angle 2$ and $m\angle 2 = 8^\circ$, find $m\angle 1$.

Given that $\angle 3$ is a supplement of $\angle 4$ and $m\angle 3 = 117^\circ$, find $m\angle 4$.

$\angle LMN$ and $\angle PQR$ are complementary angles. Find the measures of the angles if $m\angle LMN = (4x - 2)^\circ$ and $m\angle PQR = (9x + 1)^\circ$

Geometry 1.6 Name: _____

Linear Pair

What is it like?

- Angles that make a _____.
- _____ar pair
- _____ angles

What are examples?

- _____
- _____

Vertical Angles

What is it like?

- Angles formed when _____.
- On _____ sides of the _____
- Are not necessarily _____ each other

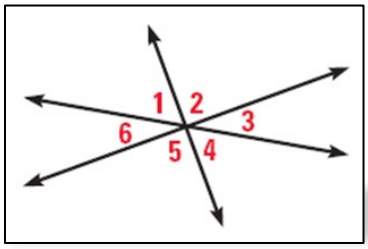
What are examples?

- _____
- _____

Vertical Angles are _____.

Do any of the numbered angles in the diagram below form a linear pair?

Which angles are vertical angles?



Two angles form a linear pair. The measure of one angle is 3 times the measure of the other. Find the measure of each angle.

Diagrams

Things you can assume in diagrams.

Points are _____

_____

Lines are _____

_____

Things you cannot assume in diagrams

_____ unless stated

_____ unless stated

Assignment: 50 #2, 4, 6, 8, 10, 12, 14, 16, 20, 22, 24, 26, 28, 40, 42, 51, 52, 53, 54, 62 = 20 total