

Lesson 1.6 Describing Pairs of Angles

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Lesson 1.6

Geometry

GEOMETRY LESSON 1.6

Describing Pairs of Angles

Date: 9/17/21

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Learning Intent (Target): *Today I will be able to describe and identify types of angles.*

Success Criteria: *I'll know I'll have it when I'll be able to determine angle measures of complementary and supplementary angles. Identify the difference between vertical & linear pairs of angles*

Accountable Team Task: *Therefore, I can practice using postulates from interactive flip charts and apply it to problem solving.*

Core Concept

Complementary and Supplementary Angles

$\angle 1$ and $\angle 2$

complementary angles

Two positive angles whose measures have a sum of 90° . Each angle is the *complement* of the other.

$\angle A$ and $\angle B$

complementary angles

Two positive angles whose measures have a sum of 90° . Each angle is the *complement* of the other.

$\angle 3$ and $\angle 4$

supplementary angles

Two positive angles whose measures have a sum of 180° . Each angle is the *supplement* of the other.

$\angle C$ and $\angle D$

supplementary angles

Two positive angles whose measures have a sum of 180° . Each angle is the *supplement* of the other.

Adjacent Angles

Complementary angles and supplementary angles can be *adjacent angles* or *nonadjacent angles*. **Adjacent angles** are two angles that share a common vertex and side, but have no common interior points.

$\angle 5$ and $\angle 6$ are adjacent angles.

$\angle 7$ and $\angle 8$ are nonadjacent angles.

Core Concept

Linear Pairs and Vertical Angles

Two adjacent angles are a **linear pair** when their noncommon sides are opposite rays. The angles in a linear pair are supplementary angles.

$\angle 1$ and $\angle 2$ are a linear pair.

Two angles are **vertical angles** when their sides form two pairs of opposite rays.

$\angle 3$ and $\angle 6$ are vertical angles.
 $\angle 4$ and $\angle 5$ are vertical angles.