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Worksheet On Naming Angles In Geometry Answer Key PDF

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Part 1: Building a Foundation

What is the common endpoint where two rays meet to form an angle called?

undefined. Side

undefined. Vertex ✓

undefined. Base

undefined. Edge

The common endpoint is called the vertex.

Which of the following are types of angles? (Select all that apply)

undefined. Acute ✓

undefined. Obtuse ✓

undefined. Parallel

undefined. Reflex ✓

The types of angles include acute, obtuse, and reflex.

Describe how an angle is named using three points.

An angle is named using three points, with the middle point being the vertex.

List the types of angles based on their degree measurements.

1. Acute angle

Less than 90 degrees

2. Right angle

Exactly 90 degrees

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3. Obtuse angle

Greater than 90 degrees but less than 180 degrees

4. Straight angle

Exactly 180 degrees

Types of angles include acute (less than 90°), right (90°), obtuse (greater than 90° but less than 180°), and straight (180°).

Which angle type measures exactly 90 degrees?

undefined. Acute

undefined. Right ✓

undefined. Obtuse

undefined. Straight

The angle that measures exactly 90 degrees is called a right angle.

Part 2: comprehension and Application

Which of the following statements about complementary angles are true? (Select all that apply)

undefined. They add up to 180 degrees.

undefined. They add up to 90 degrees. ✓

undefined. They can be adjacent. ✓

undefined. They are always equal.

Complementary angles add up to 90 degrees and can be adjacent.

Explain the difference between supplementary and complementary angles.

Supplementary angles add up to 180 degrees, while complementary angles add up to 90 degrees.

If ∠A measures 40 degrees, what is the measure of its complementary angle?

undefined. 50 degrees ✓

undefined. 60 degrees

undefined. 140 degrees

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undefined. 180 degrees

The measure of the complementary angle is 50 degrees.

Which of the following angles can be found in a triangle? (Select all that apply)

undefined. Acute ✓

undefined. Right ✓

undefined. Obtuse ✓

undefined. Reflex

In a triangle, you can find acute, right, and obtuse angles.

Using a protractor, measure an angle in your environment and describe its type and measurement.

Students should measure an angle and identify its type (acute, right, obtuse) and provide the measurement.

Part 3: Analysis, Evaluation, and Creation

When two lines intersect, which of the following pairs of angles are always equal?

undefined. Adjacent angles

undefined. Vertical angles ✓

undefined. Complementary angles

undefined. Supplementary angles

The angles that are always equal when two lines intersect are called vertical angles.

Identify the correct relationships between angles when two parallel lines are cut by a transversal. (Select all that apply)

undefined. Correspondingly angles are equal. ✓

undefined. Alternate interior angles are equal. ✓

undefined. Consecutive interior angles are equal.

undefined. Vertical angles are supplementary.

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Correspondingly angles and alternate interior angles are equal when two parallel lines are cut by a transversal.

Analyze the relationship between adjacent angles and provide an example.

Adjacent angles share a common vertex and side, and an example could be two angles formed by intersectting lines.

Which of the following statements best evaluates the properties of a straight angle?

undefined. It is always less than 90 degrees.

undefined. It is equal to two right angles. ✓

undefined. It is formed by two perpendicular lines.

undefined. It is always greater than 180 degrees.

A straight angle is equal to two right angles.

Which scenarios could involve the use of angles in real-world applications? (Select all that apply)

undefined. Designinga roof ✓

undefined. Calculating the trajectory of a ball ✓

undefined. Measuring the height of a building ✓

undefined. Planning a garden layout ✓

Scenarios include designing a roof, calculating trajectories, measuring heights, and planning layouts.

Create a real-world problem involving angles and provide a solution. Include the type of angles involved and their measurements.

Students should create a problem involving angles, such as measuring a roof pitch, and provide a solution with angle types and measurements.

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