# **Degree Measure of an Angle**

### A. Choose the Correct Answer:

#### 1. What is the sum of the angles in a straight line?

a) 90°	b) 180
c) 360°	d) 45°

- c) 360° d) 4
- 2. An angle measuring 75° is called a:
  - a) Right angle b) Obtuse angle
  - c) Acute angle d) Straight angle

#### 3. What is the measure of a complete revolution?

- a) 90° b) 180°
- c) 270° d) 360°

#### 4. A reflex angle is an angle that measures:

- a) Between 90° and 180° b) Between 180° and 360°
- c) Exactly 180° d) Less than 90°
- 5. If two angles add up to 90°, they are called:
  - a) Complementary angles b) Supplementary angles
  - c) Vertical angles d) Adjacent angles

## **B.** Figure out the answers to these questions:

- 1. Draw a right angle and label its vertex and arms.
- 2. If two complementary angles are in the ratio 2:3, find their measures.
- 3. If an angle is 30° less than its supplementary angle, find its measure.
- 4. A triangle has one right angle. If one of the other angles is 35°, find the third angle.
- 5. If an angle measures 150°, find its reflex angle.
- 6. If one angle of a linear pair is 135°, find the measure of the other angle.
- 7. The hands of a clock form an angle at 4:00. Find the angle between them.
- 8. Identify the Angle Type:

i. 85° =	ii. 150° =
iii. 270° =	iv. 90° =

9. State the measure of the angles formed by two hands of a clock at:



#### C. Write the Missing Terms to Complete the Sentences:

- 1. The sum of all angles at a point is \_\_\_\_\_ degrees.
- 2. A straight angle measures exactly \_\_\_\_\_ degrees.
- 3. Two angles that add up to 180° are called \_\_\_\_\_\_ angles.
- 4. An angle less than 90° is called an \_\_\_\_\_ angle.
- 5. If two angles form a linear pair, their sum is \_\_\_\_\_\_ degrees.

#### D. Challenge yourself with these questions:

- 1. Two angles are supplementary. One of them is twice the other. Find the angles.
- 2. A pizza is divided into 6 equal slices. What is the degree measure of each slice?
- 3. The sum of three angles is 270°. One angle is 90° and the second angle is 85°. Find the third angle.
- 4. Find the number of right angles in one full revolution.
- 5. The exterior angle of a triangle is 110°. If one of the opposite interior angles is 40°, find the other interior angle
- E. Classify each of the following angles as acute, obtuse, right, straight or reflex:



F. Measure each of the following angles with the help of a protractor and write the measurements in degrees.

