Comparison of Angles

A. Choose the correct option.

1. Which of the following angles is the largest?

a) 45°	b) 90°
c) 120°	d) 30°

- 2. If angle A = 50° and angle B = 70°, which angle is larger?
 - a) A b) B
 - c) Both are equal d) Cannot be determined
- 3. Which of the following angles is an acute angle?
 - a) 95° b) 120° c) 60° d) 180°
- 4. If angle P is smaller than angle Q and angle Q is smaller than angle R, then which is the largest angle?
 - a) P b) Q
 - c) R d) Cannot be determined
- 5. What type of angle is exactly 90°?
 - a) Acute angle b) Obtuse angle
 - c) Right angle d) Straight angle

B. Figure out the answers to these questions:

- 1. Arrange the following angles in increasing order: 30°, 90°, 45°, 120°.
- 2. If angle A is 2 times angle B and angle B is 40°, find the measure of angle A.
- 3. Draw two angles, one measuring 60° and another measuring 150°. Compare them and write your observation.
- 4. Find the difference between the largest and the smallest angle among 80°, 45°, 120°, and 90°.
- 5. If two angles add up to 180°, what type of angles are they? Give an example.
- 6. The sum of two angles is 130°. If one angle is 60°, find the other angle and compare them.
- 7. If angle X is three times angle Y and their sum is 120°, find both angles and compare them.

C. Write the Missing Terms to Complete the Sentences:

- 1. An angle that is greater than 90° but less than 180° is called an ______ angle.
- 2. The measure of a straight angle is ______ degrees.
- 3. A right angle is always ______ than an acute angle.
- 4. If two angles are equal, their comparison gives us the result ______.
- 5. An angle measuring 89° is ______ than a right angle.

D. Challenge yourself with these questions:

- 1. A clock shows the time as 3:00 PM. What is the angle formed between the hour and minute hands? Compare this angle with a right angle.
- 2. A carpenter is making a wooden frame with one angle as 95° and another as 85°. Are the two angles equal? If not, compare them.
- 3. The angle of elevation of a kite from the ground is 75°, and the angle of elevation of a drone is 60°. Which one is at a higher elevation?
- 4. A road signboard has an angle of 110° between two sides. What type of angle is this, and how does it compare to a right angle?
- 5. An artist is designing a triangular artwork where two angles measure 40° and 80°. Find the third angle and compare it with the smallest given angle.

E. On the basis of your observation identify the right angles and straight angles from the following.

