



## Introduction to Lines and Angles

### A. Choose the Correct Answer:

1. Which of the following is a correct definition of a line?

- a) A straight path that has two endpoints
- b) A straight path that extends infinitely in both directions
- c) A straight path that extends infinitely in one direction
- d) A curved path with no endpoints

2. What is the measure of a right angle?

- a)  $45^\circ$
- b)  $90^\circ$
- c)  $120^\circ$
- d)  $180^\circ$

3. Two lines that never meet and are always at the same distance apart are called:

- a) Intersecting lines
- b) Parallel lines
- c) Perpendicular lines
- d) Ray

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

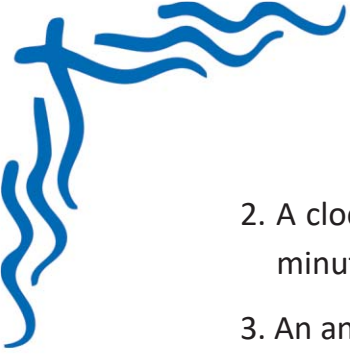
1. A line extends \_\_\_\_\_ in both directions.
2. An angle that measures  $180^\circ$  is called a \_\_\_\_\_ angle.
3. Two lines that cross each other at a point are called \_\_\_\_\_ lines.
4. A part of a line that has one endpoint and extends infinitely in one direction is called a \_\_\_\_\_.
5. The sum of angles on a straight line is always \_\_\_\_\_ degrees.

### C. Figure out the answers to these questions:

1. Define a line segment with an example.
2. What is the difference between a ray and a line?
3. How many degrees are there in a complete turn (full rotation)?
4. Draw and label a right angle, acute angle, and obtuse angle in your notebook.
5. If one angle of a straight line is  $110^\circ$ , find the measure of the other angle.

### D. Challenge yourself with these questions:

1. A carpenter is making a table and needs to cut a wooden plank at a right angle. What should be the angle measurement in degrees?



2. A clock shows the time as 3:00. What type of angle is formed by the hour and minute hands?
3. An angle is  $40^\circ$  less than a right angle. What is its measure?
4. Identify whether the given figure has parallel or perpendicular lines. (Provide a diagram in the textbook/classwork.)
5. Find the sum of two complementary angles if one of them is  $35^\circ$ .

**E. Mark each sentence with a True (✓) or False (X):**

1. A straight angle measures exactly  $90^\circ$ .
2. Two perpendicular lines intersect at  $90^\circ$ .
3. An acute angle is greater than  $90^\circ$  but less than  $180^\circ$ .
4. A line has two endpoints.
5. The sum of two supplementary angles is always  $180^\circ$ .

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