

# Class 10 Mathematics - Some Applications of Trigonometry

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Easy Worksheet 2

### Questions

1. A tower stands vertically on the ground. From a point 15 m away, the angle of elevation of its top is  $45^\circ$ . Find its height.
2. A ladder is placed against a wall making an angle of  $45^\circ$  with the ground. If the foot of the ladder is 4 m from the wall, find the height reached by the ladder.
3. State the formula for  $\tan \theta$ .
4. What is the angle of elevation if an observer looks upward at an object?
5. Which side is opposite to the angle of elevation in a right triangle?
6. What is the value of  $\tan 45^\circ$ ?

### Answer Key

1. 15 m
2. 4 m
3.  $\tan \theta = \text{Opposite Side} / \text{Adjacent Side}$
4. Angle of elevation
5. Vertical side (height)

6. 1

