

Worksheet

Class 8 Mathematics | The Baudhayana–Pythagoras Theorem

1. The lengths of the legs of a right-angled triangle are 6 cm and 8 cm. Find the length of the hypotenuse.
2. A 17 m long ladder reaches a window which is 8 m above the ground, on one side of the street. Keeping its foot at the same point, the ladder is turned to the other side of the street to reach a window at a height of 15 m. Find the width of the street.
3. A tree is broken at a height of 6 m from the ground and its top touches the ground at a distance of 8 m from the base of the tree. Find the original height of the tree.
4. Find the length of each side of a rhombus whose diagonals are of length 10 cm and 24 cm.
5. The length of each side of a rhombus is 45 cm. If the length of one diagonal is 54 cm, find the length of the other diagonal.
6. A tree is broken by wind but does not separate. If the point from where it breaks is 9 m above the ground and its top touches the ground at a distance of 12 m from its foot, find out the total height of the tree before it broke.
7. Two poles 18 m and 13 m high stand upright in a playground. If their feet are 12 m apart, find the distance between their tops.
8. A man goes 35 m due west and then 12 m due north. How far is he from the starting point?
9. A man goes 3 km due north and 4 km due east. How far is he from his initial position?