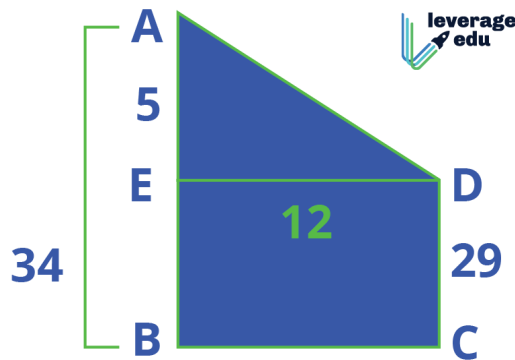# Pythagoras Theorem Practice Worksheet

Q1. A rectangular park has a length of 150m. A diagonal footpath has a length of 170m. Calculate the perimeter using the Pythagoras formula

Q2. There are 2 buildings which have a height of 39 and 24m. If the distance between those 2 buildings is 10m, calculate the distance between the top of the two buildings

Q3. The two sides of a right-angled triangle are 17m and 15m, which determine the third side of the triangle.

Q4. There is a square with a side of 8m. If two corners of it are joined, what will be the length of the diagonal?

Q5. A ladder of height 13m touches the top of a vertical building with a height of 12m. What will be the distance between the ladder and the bottom of the wall

Q6. The side of the triangle is of length 7.5 m, 4 m, 8.5 m. Is this triangle a right triangle? If so, which side is the hypotenuse?

Q7. In △ABC right angled at A. if AB = 10 m and BC = 26 m, then find the length of AC.

Q8. In △XYZ right-angled at Y. find the length of the hypotenuse if the length of the other two sides is 1.6 cm and 6.3 cm.

Q9. If the square of the hypotenuse of an isosceles right triangle is 98cm, find the length of each side.

Q10. A triangle has a base of 5 cm, a height of 12 cm and a hypotenuse of 13 cm. Is the triangle right-angled?