

CLASS 8 · HOTS · OLYMPIAD PREPARATION · DPP SHEET

Chapter 11: HOTS: Baudhayana-Pythagoras Theorem (Class 8)

Daily practice problems: 8 questions with an answer key

Try every question on your own first. The answer key is on the last page.

1. The legs of a right triangle are 8 cm and 15 cm. Find the hypotenuse.
2. Is (9, 40, 41) a Pythagorean triple?
3. A ladder 25 m long has its foot 7 m from a wall. How high does it reach?
4. A rectangle has a diagonal of 13 cm and a length of 12 cm. Find its breadth.
5. Find the diagonal of a square of side 7 cm.
6. Find the height of an equilateral triangle of side 10 cm.
7. Write a Pythagorean triple whose members are all multiples of 10.
8. Two poles 6 m and 11 m tall stand 12 m apart. Find the distance between their tops.

Answer Key

1. 17 cm.
2. Yes, since $81 + 1600 = 1681 = 41^2$.
3. 24 m.
4. 5 cm.
5. $7\sqrt{2}$ cm.
6. $5\sqrt{3}$ cm, about 8.66 cm.
7. 30, 40, 50 (ten times 3, 4, 5).
8. 13 m.

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