Kaboodle

The Triangle and its Properties

Topic: Pythagoras Theorem

Name: [   ]

Date: [   ]

1. A ladder is placed in such a way that its foot is at a distance of 5 m from a wall and its top reaches a window 12 m above the ground. Determine the length of the ladder.   [   ] m

2. A ladder 25 m long reaches a window of a building 20 m above the ground. Determine the distance of the foot of the ladder from the building.   [   ] m

3. The hypotenuse of a triangle is 2.5 cm. If one of the sides is 1.5 cm. Find the length of the other side.   [   ] cm

4. A man goes 15 m due west and then 8 m due north. How far is he from the starting point?   [   ] m

5. The two legs of a right triangle are equal and the square of the hypotenuse is 50. Find the length of each leg.   [   ] units

6. In right △ABC, a=6cm, b=8cm. Find the length of the hypotenuse   [   ] cm

Verity that the following numbers represent Pythagorean triplet: (Answer in Yes/No)

7. 12, 35, 37   [   ]

8. 7, 24, 25   [   ]

9. 27, 36, 45   [   ]

10. 15, 36, 39   [   ]