

Pythagorean Word Problems

In each question, draw a diagram using a pencil and ruler, and show your calculations

- 1) Seth made a small rectangular table for his workroom.
The sides of the table are 36" and 18".
If the diagonal of the table measures 43", is the table square?

- 2) Tanya runs diagonally across a rectangular field that has a length of 40 yards and a width of 30 yards.
What is the length of the diagonal, in yards, that Tanya runs?

- 3) Two joggers run 8 miles north and then 5 miles west.
What is the shortest distance, to the nearest tenth of a mile, they must travel to return to their starting point?

- 4) Oscar's dog house is shaped like a tent.
The slanted sides are both 5 feet long and the bottom of the house is 6 feet across.
What is the height of his dog house, in feet, at its tallest point?

- 5) A newly planted tree needs to be staked with three wires.
Each wire is attached to the trunk 3 feet above the ground, and then anchored to the ground 4 feet from the base of the tree.
How much wire is need for 6 trees?

- 6) Two trains left Metropolis at the same time.
One travelled South at 50mph.
The other travelled East at 40mph.
How far apart were the trains at the end of 3 hours?