

Name _____

The Pythagorean Puzzle: Unlocking the Secrets of Triangles

Short Answer Key

1. The Pythagorean theorem states that in a right triangle, the square of the length of the hypotenuse is equal to the sum of the squares of the lengths of the other two sides.
2. A right triangle is a triangle with one angle that measures exactly 90 degrees. Example: A corner of a room or a slice of pizza.
3. To find the length of the hypotenuse using the Pythagorean theorem, you square the lengths of the other two sides, add them together, and then take the square root of the sum.
4. Example: The Pythagorean theorem would be useful in construction to ensure that a ladder is long enough to reach the desired height when leaning against a wall.
5. The Pythagorean theorem is considered important in mathematics because it provides a fundamental relationship between the sides of a right triangle, enabling solutions to various geometric problems.

