

Cornell Note

## Pythagorean Theorem Applications

## Today's Standard

8.G.B7 - Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.

Cues	Notes
Pythagorean Theorem	The Pythagorean Theorem states that in a right triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.
Right Triangle	<b>T</b> I II I
Hypotenuse	angle.
Legs	It is used to find the length of an unknown side in a right triangle.
Real-world applications	The formula is $a^2 + b^2 = c^2$ , where c is the hypotenuse.
	Applications include measuring distances, heights, and designing structures.

## Summary

The Pythagorean Theorem helps determine unknown side lengths in right triangles and is useful in various real-world and mathematical problems.