

Common Core Standards - Resource Page

The resources below have been created to assist teachers' understanding and to aid instruction of this standard.

Domain	Standard: 8.G.8 - Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.
<p><u>Geometry</u> Understand and apply the Pythagorean Theorem.</p>	<p><u>Questions to Focus Learning</u> How can you utilize the Pythagorean Theorem to determine the distance between any two points?</p> <p>Pythagorean Theorem can be used to find the distance between two fixed points to solve real-world mathematical problems.</p> <p><u>Student Friendly Objectives</u></p> <p><i>Knowledge Targets</i></p> <p>I can identify the legs and hypotenuse of a right triangle. I can solve simple equations. I can determine square numbers and square roots of perfect squares. I can simplify radical expression.</p> <p><i>Reasoning Targets</i></p> <p>I can estimate square roots. I can determine how the distance formula relates to the Pythagorean Theorem.</p> <p><u>Vocabulary</u></p> <p>hypotenuse irrational numbers legs perfect square Pythagorean Theorem radical expression rational numbers square roots</p>

Teacher Tips

[Core Principles Newsletter Math 8.EE.1](#)

[Math Core Principles Newsletter 8.G.6](#)

[Math Core Principles Newsletter 8.G.8](#)

Vertical Progression

G.SRT.4 - Prove theorems about triangles. Theorems include: a line parallel to one side of a triangle divides the other two proportionally, and conversely; the Pythagorean Theorem proved using triangle similarity.

G.SRT.8 - Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.
*(Modeling Standard)

The above information and more can be accessed for free on the [Wiki-Teacher](#) website.
Direct link for this standard: [8.G.8](#)