



Right Triangle Problem Solving

Today's Standard

HSG.SRT.C8 - Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.*

Real-World Applications for this Standard

Designing ramps for accessibility; Calculating distances in navigation; Engineering and construction projects; Determining heights of tall objects using shadows; Analyzing forces in physics problems

Today I Learned

Today I learned how to use special math rules to solve problems with right triangles. We can use these rules to find out things like how tall a building is or how long a ramp needs to be.

Common Stumbling Blocks

Sometimes kids mix up the math rules and use the wrong one. Another mistake is using the special right triangle rule for triangles that aren't right triangles.

Quiz Me

- What is a right triangle?
- What is the Pythagorean Theorem?
- What does sine help us find?
- Can we use the Pythagorean Theorem for all triangles?
- Why do we need to know about right triangles?

Help Me

We use special math rules to solve problems with right triangles. For example, we can figure out how tall a building is by measuring its shadow and using these rules. This helps us in many real-world situations like construction and navigation.