Triangle Similarity Transformations

Today's Standard

HSG.SRT.A2 - Given two figures, use the definition of similarity in terms of similarity transformations to decide if they are similar; explain using similarity transformations the meaning of similarity for triangles as the equality of all corresponding pairs of angles and the proportionality of all corresponding pairs of sides.

Real-World Applications for this Standard

Architectural design and scaling; Map reading and scaling distances; Modeling and creating prototypes; Art and design, such as creating similar patterns; Engineering projects involving similar structures

Today I Learned

Today, we learned about similarity in geometry. Similarity means that two shapes have the same angles and their sides are in the same proportion.

Common Stumbling Blocks

Sometimes, students think that similarity only involves equal angles, but it also involves proportional sides. Another common mistake is confusing similarity with congruence, which means the shapes are exactly the same in size and shape.

Quiz Me

- What does it mean if two shapes are similar?
- Do similar shapes have the same angles?
- Do similar shapes have the same side lengths?
- Can two shapes be similar if they are different sizes?
- What is one real-world example of similar shapes?

Help Me

Similarity in geometry means that two shapes have the same angles, and their sides are in the same proportion. For example, in real life, you might see similar shapes in buildings and maps. Understanding similarity helps us solve problems and design things better.