

Properties of Dilations

Today's Standard

HSG.SRT.A1 - Verify experimentally the properties of dilations given by a center and a scale factor:

Real-World Applications for this Standard

Scaling maps and blueprints; Creating similar figures in art and design; Understanding photographic enlargements and reductions; Modeling real-world objects in different scales

Today I Learned

Today, we learned about dilations in geometry. A dilation changes the size of a shape but keeps the same shape. We use a center point and a scale factor to do this.

Common Stumbling Blocks

Some kids think that dilations change the shape of a figure, but they just change the size. Others think the center of dilation must be inside the figure, but it can be anywhere.

Quiz Me

- What is a dilation?
- What does a dilation change?
- What stays the same in a dilation?
- Where can the center of dilation be?
- What is a scale factor?

Help Me

A dilation changes the size of a shape, like making a small toy into a big toy, but it keeps the shape the same. We use this idea in real life, like making maps bigger or smaller.