



## Dilation and Parallel Lines

### Today's Standard

HSG.SRT.A1a - A dilation takes a line not passing through the center of the dilation to a parallel line, and leaves a line passing through the center unchanged.

### Real-World Applications for this Standard

Scaling maps and blueprints; Modeling in architecture; Creating similar figures in art; Understanding lens magnification in optics

### Today I Learned

Today we learned about how dilations change the size of shapes but keep their form. If a line doesn't go through the center, it moves to a parallel line. If it does go through the center, it stays the same.

### Common Stumbling Blocks

Some students think dilations change the direction of lines, but they don't. They also think dilations change angles, but angles stay the same.

### Quiz Me

- What is a dilation?
- What happens to a line that doesn't go through the center of dilation?
- Does a dilation change the angles of a shape?
- Can you give an example of a real-world use of dilation?
- What happens to a line that goes through the center of dilation?

### Help Me

A dilation changes the size of a shape but keeps its form. This is like making a small drawing bigger without changing how it looks. In the real world, this helps in things like making maps or models.