



Understanding Line Segment Dilation

Today's Standard

HSG.SRT.A1b - The dilation of a line segment is longer or shorter in the ratio given by the scale factor.

Cues	Notes
What is dilation?	Dilation is a transformation that changes the size of a figure but not its shape.
How does a scale factor work?	A scale factor determines how much larger or smaller the dilated figure will be.
What remains unchanged in dilation?	During dilation, the shape of the figure remains the same; only the size changes.
Examples of dilation in real life	Real-life examples include resizing images, map scaling, and architectural models.
Common misconceptions about dilation	Common misconceptions include thinking that dilation changes the shape or affects only one dimension.

Summary

Dilation changes the size of a figure proportionally according to a scale factor, without altering its shape. Understanding this is key to mastering geometric transformations and applying these concepts in real-world scenarios.