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Geometric Constructions

Today's Standard

HSG.CO.D12 - Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.). Copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; and constructing a line parallel to a given line through a point not on the line.

Cues	Notes
Geometric Constructions	Geometric constructions involve creating figures using specific tools and techniques.
Tools and Methods	
Real-World Applications	Tools include compass, straightedge, string, reflective devices, paper folding, and dynamic geometric software.
Common Misconceptions	Applications include architecture, engineering, technical drawing, and art.
	Misconception 1: Only compass and straightedge can be used.
	Misconception 2: Constructions are not useful outside math class.

Summary

Geometric constructions are fundamental skills in geometry, using various tools and methods to create figures. These skills have broad applications in fields like architecture and engineering. Common misconceptions include limiting tools to compass and straightedge and undervaluing real-world applications.