



## Constructing Triangles with Conditions

### Today's Standard

7.G.A2 - Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.

Cues	Notes
What are the conditions for forming a triangle?	Conditions for forming a triangle include specific measures of angles or sides.
How can triangles be constructed?	Triangles can be constructed freehand, with rulers and protractors, or using technology.
What tools are used in drawing geometric shapes?	Tools such as rulers, protractors, and geometry software are essential for accurate construction.
What are common misconceptions about triangle construction?	Common misconceptions include thinking any three measures form a triangle and that all triangles with the same measures are unique.

### Summary

Understanding how to construct triangles with given conditions is crucial. This involves using appropriate tools and recognizing when conditions determine unique or multiple triangles. Addressing common misconceptions helps solidify this understanding.