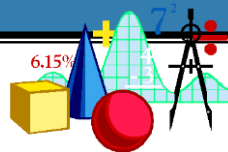


Mathematics, Geometry

Unit IX: Lesson 2

Constructions: Oh No, I've Lost My Ruler!



Constructions have been traditionally done with the two instruments specified by Plato, a straightedge and compass. Two mathematicians Mohr and Mascheroni discovered that all constructions possible with a straightedge and compass can be done with a compass alone. Research Mohr-Mascheroni constructions.

Find out how to do at least 3 of these constructions. Analyze why each works.

Demonstrate the 3 constructions to the class briefly describing each step. Explain why each construction works, supporting your reasoning with geometric theorems.