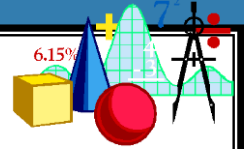


Mathematics, Geometry
Unit III: Lesson 1

Application: **Triangulation**



Triangulation is a method used to determine distances that cannot be measured directly. Study the principle of triangulation presented in books, especially surveying and astronomical applications.

Using triangulation, calculate the height of a tower, billboard or other object located atop a building. Verify your accuracy by finding the actual size of the object from the building's owner.

Use triangulation to determine the length of the orbit of the moon. Find the accepted value of the moon's orbital circumference and calculate your percent error.

Draw to scale the exercises you have completed. Organize your conclusions in a visual way for display or for a handout to distribute to your class.