**Lesson Plan Outline Geometry in Construction**

**Title:**

Operations with Radicals

**Objective(s):**

The students will perform mathematical operations with radicals including multiplication and division.

**Learning Standard(s):**

[CCSS.MATH.CONTENT.HSG.SRT.C.8](http://www.corestandards.org/Math/Content/HSG/SRT/C/8/)Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.\*

**Activities:**

The students will play a game to learn how to perform operations of radicals.

Radical Operations Practice

Students will use Pythagorean Theorem and radicals to find the lengths of missing sides of a canopy tent

Radical Operations Assessment

**Materials:**

Canopy Tent & Tape Measures

Canopy Tent Activity

Radical Operations Assessment