Expectations

- 2.2 The student will apply geometric properties to solve problems using tools and technology when appropriate.
- 2.3 The student will apply concepts of measurement using tools and technology when appropriate.

Essential Questions

How are right triangles used to measure indirectly?

How are the areas of polygons and circles related and applied?

Enduring Understanding

Indirect measurement is based on the properties of geometric figures.

Indicators

- 2.2.2 solve problems using two-dimensional figures and/or right-triangle trigonometry.
 - 2.2.2.c solve problems using the Pythagorean theorem.
 - 2.2.2.d solve problems involving special right triangles including the relationships (30°; 60°; 90°) and (45°; 45°; 90°).
- 2.3.2 use techniques of measurement and will estimate, calculate, and/or compare perimeter, circumference, area, volume, and/or surface area of two-and three- dimensional figures and their parts.
 - 2.3.2.a apply techniques of measurement involving two-dimensional shapes, including polygons, circles, and composite figures.
 - 2.3.2.c apply geometric properties and relationships.