

Unit: Area of two-dimensional figures

The unit of study of area is explored throughout elementary, middle and high school. The following assessments could be used in higher grades of middle school or for remedial geometry classes of high school. The following 5 assessments are included in the set:

1. Perimeter and Area of Quadrilaterals
2. Perimeter and Area of Triangles
3. Circumference and Area of a Circle
4. Compound areas of two dimensional figures
5. Areas of Two-Dimensional Figures

1. Perimeter and Area Quadrilaterals

This assessment includes finding perimeter and area of a rectangle. The task is based on carpeting a room.

2. Perimeter and Area of Triangles

This task involves use of Pythagorean Theorem to find missing side and is based on process skill of finding, analyzing and correcting mistakes. The assessment is accompanied by a series of formative assessments to build up the skills of identifying and correcting mistakes involving Pythagorean Theorem and area of triangle.

3. Circumference and Area of a Circle

This assessment involves finding and comparing areas of square, rectangle and circle when students are given perimeter or circumference.

4. Compound areas of two dimensional figures

The task asks students to evaluate areas and estimate amount of materials to complete given projects.

5. Areas of Two-Dimensional Figures

The last assessment on the unit is to create a booklet with examples and formulas for two-dimensional figures.