

Measurement

Goal: The learner will select and use appropriate tools to measure two- and three – dimensional figures.

Objective:

2.02 Solve problems involving perimeter/circumference and area of plane figures.

To achieve this objective, students should:

- Understand that the area of an object is the number of unit squares needed to cover it and the perimeter of an object is the number of units of length needed to surround it.
- Understand that the circumference of a circle is the number of units of length needed to surround it.
- Develop techniques for estimating the area of a circle.
- Discover that it takes slightly more than three (π) times the square of the radius to equal the number of square units in the area of a circle.
- Discover by modeling that two figures with the same area may have different perimeters and that two figures with the same perimeter may have different areas.
- Discover by modeling how the area of a rectangle is related to the area of a triangle and of a parallelogram.
- Develop formulas (by modeling using words or symbols) for finding areas and perimeters of rectangles, parallelograms, triangles, trapezoid, circles and composite shapes then use these formulas to solve problems.