ASSIGNMENTS BY SKILL LEVEL

LEVEL 1:

Polygons: Identify and name polygons with 3, 4, 5, 6 and 8 sides.

LEVEL 4:

<u>Polygons Area and Perimeter</u>: Examples show how to calculate area and perimeter of regular and composite polygons.

<u>Calculate</u>: Area and Perimeter of Composite Polygons Tool.

<u>Unit Land Activity</u>: Print an Activity Sheet for each student, Plot Points, Graph Shape and calculate Area and Perimeter.

LEVEL 5:

<u>Circles</u>: Review Examples and Formulas, including Steps Around the 1/2 Circle and Pi Mosaic Activities.

<u>Circumference and Area of Circles</u>: use a calculator and 3.14 for Pi, round answers to 2 decimals

<u>Volume and Surface Area of Spheres</u>: Print 3 Examples Sheet, use calculator, Pi=3.14, use **Spheres Tool** for more practice.

LEVEL 6:

<u>Circles</u>: Given 1 component of a circle determine the other 5, answer in terms of PI, - no calculators.

<u>Distance Between Two Points</u>: Review the Algebraic Example and copy the Geometric Example into notes.

<u>Calculate Distance</u>: between points using $A^2 + B^2 = C^2$, use a calculator and round answers to 2 decimals.

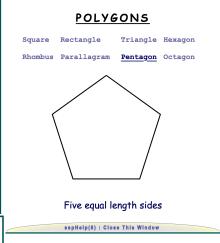
www.abc123math.com / Program Materials / Section Overviews / Geometry

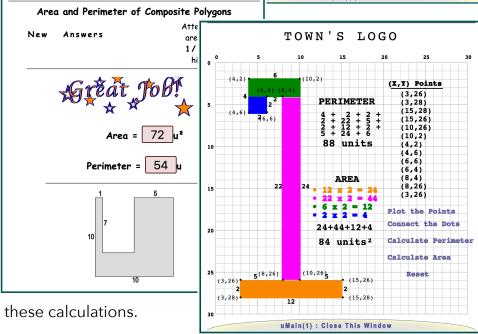


Geometry starts with identifying shapes of 8 regular polygons and calculating perimeters. Examples showing how to find area and perimeter are helpful

The Composite Polygon Tool generates endless practice with

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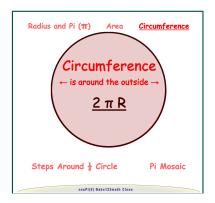
The Unit Land Activity

requires printing an activity sheet for each student and have them graph (X,Y) Coordinates, draw the shape, and calculate perimeter then break it up into squares and rectangles to calculate the area.

CIRCLES AREA ARC RADIUS PI

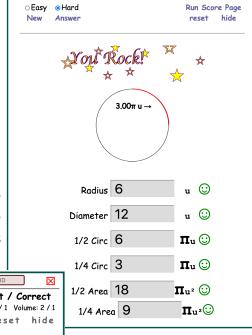
Examples defining terms and formulas may be reviewed first.

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The Circles Tool in Easy mode and the Spheres Tool, operate similarly generating a Radius

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Goto Circles
New Answer

Attempt / Correct
Area: 2/1 Volume: 2/1
reset hide

A sphere with a 29 inch Diameter

Surface Area = 2640.74 in²

Volume = 12763.58 in³

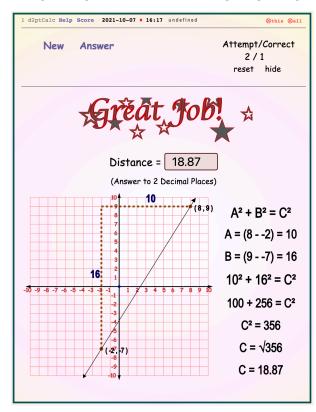
Spheres Tutorial

or Diameter, using 3.14 for Pi they calculate areas and volume, entering answers rounded to 2 decimal places.

in Hard mode one element is given and students find the other 5, entering answers in terms of Pi, No calculators. Pi Mosaic and Steps Around the

Half Circle Activities may be worked anytime.

DISTANCE BETWEEN TWO POINTS



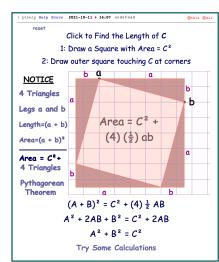
Distance Between 2 Points features a tool generating 2 points on a grid, students are asked to find the distance between them.

A tutorial with an algebraic example shows step-by-step operations to solve for distance.

A geometric Example animates a proof of the Pythagorean Theorem:

$$A^2 + B^2 = C^2$$

THE GEOMETRY



THE ALGEBRA

