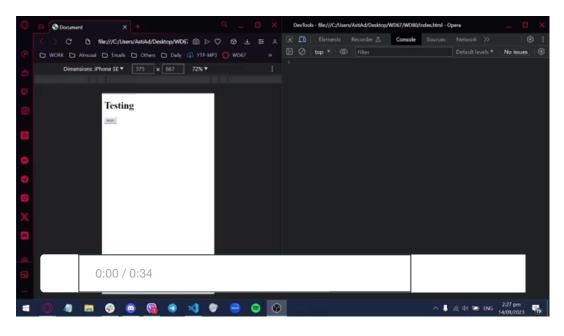
## ACT #32 Shape Solver

New Attempt

**Due** No Due Date **Points** 35 **Submitting** a file upload **File Types** js

SOFT DEADLINE: 11/30/2023 3:05 PM

HARD DEADLINE: 11/30/2023 3:10 PM



### Instruction

Create a program that solves for the area of a specified shape.

## **Tools**

JavaScript, HTML, Visual Studio Code

# Description

- Follow the Submit Your Work steps. (https://kodego.instructure.com/courses/379/pages/7-dot-1essential-javascript-functions?module\_item\_id=17474)
- Name your JavaScript program area.js
- · Write the script that does the following:
  - 1. Ask the user what they want to solve for:

- · The area of a triangle
- · The area of a circle
- The area of a rectangle
- The user would only need to enter a number to make their selection (i.e. (1) triangle, (2) circle, (3) rectangle)
- 2. Upon selecting one, ask the user for the necessary measurements for the formula.
  - For the triangle, the base and height.
  - For the circle, the radius.
  - For the rectangle, the length and width.
- 3. Using the respective formula, get the area.
  - For the triangle, 1/2 (b \* h)
  - For the circle, 3.1416 \* r squared
  - For the rectangle, I \* w
- 4. Display the answer via the console.
  - Don't just display the answer as is. Format it as a sentence (i.e. The area of the shape is...).
- · Submit your JavaScript file only here.

#### Validation

- Aside from the requirements stated above, the program should also display an error message in the case of...
  - The user entering an incorrect number when prompted for a shape (i.e. they enter 0 or 4 even though the choices are only 1, 2, and 3)

#### Test Cases

• You can try these out to check if your program is working correctly.

Input	Result
Prompt #1: 1 Prompt #2: 4 Prompt #3: 10	The area of the triangle is 20.
Prompt #1: 2 Prompt #2: 62.5	The area of the circle is 12271.875.
Prompt #1: 3 Prompt #2: 3 Prompt #3: 4	The area of the rectangle is 12.

F	Prompt #1: 4	Error message