

# IN-CLASS STUDENT ACTIVITY 4.1: MANAGE AND MAINTAIN JAVASCRIPT

## Lesson Objective 4.1:

Manage and maintain JavaScript.

## Resources, software, and additional files needed for this lesson:

1. Microsoft® Expression® Web 4 (preferred) or Notepad++. Notepad++ provides real-time feedback for writing JavaScript. Download: <http://www.notepadplusplus.org/>.

## Guiding questions:

1. What is the difference between a global and a local variable?
2. How can you avoid problems if a browser does not support JavaScript?
3. What is the purpose of using Windows® Library or jQuery for JavaScript in your website?

## Student activity:

### Directions to the student:

Read the following scenario and answer the questions. Verify your answers with the instructor.

### Scenario:

Diane Forsyth has a friend who teaches children between the ages of five and seven years. She wants to review simple math facts with them, and she would like to make it fun by adding this activity to her school website.

Diane recommends using JavaScript, but her friend is not familiar with this tool. Demonstrate your skills by creating a web page using CSS Region and multi-column styles.

### Content:

1. Create an HTML page that provides a math problem, such as "What is the product of 6 x 12?"
2. When the user presses the "Find answer" button, display the answer.
3. Try various types of math problems. Include at least four or five multiple-choice problems with varying degrees of difficulty.
4. Test the page.
5. Add a call to some built-in functions, such as `alert()` and `prompt()`.