# **FactFun**

A C++ Solution to Multiplication Drills

By: It's an Algorithm:

Michelle Sukraw ● James Gutierrez ● Eva Bayer ● Joseph Santibout ● Tonya Lamb

### Pseudo Code:

# Start: Include libraries: iostream, cmath, stdlib.h, and time.h Using namespace std;

## Main Function:

- Defines two integers, "a" and "b"
- Introduces the user via a "cout" statement: "Welcome to FactFun Math Trainer"
- Repeats the main function if "y" or "Y" is entered by the user.

### **Random Number Generator:**

- Generates two random integers below 13 for the integers defined as "a" and "b" in the main function.
- Asks the user to "Solve the equation "a" x "b"" via "cout" statement.
- Prompts the user to enter an integers as the answer defined as "guess" via "cin".

## Compare:

- Compares the user's answer defined as "guess" with the actual answer of the given equation.
- If the user's answer is correct the program will state "Correct.
  Would you like to try another problem? (y/n)" via "cout" and
  will prompt the user to input a "y" if they chose to continue a
  "n" if they would like to stop.
- If the user's answer is incorrect, the program will state "Incorrect. Please try again." and will prompt the user to input another integer.

