

**Programming Logic - Beginning**  
152-101

**Math Program Design Evaluation Form**

Score \_\_\_\_\_ / 20

Update Value \_\_\_\_\_

[Make all corrections and resubmit to earn update points](#)

☒ Update Recommended

**IOP**

- ☐ (½ point) Two inputs included
- ☐ (½ point) Inputs do not include verbs
- ☐ (½ point) Six outputs included
- ☐ (½ point) Outputs do not include verbs
- ☐ (½ point) Outputs include requirements to display entire equations
- ☐ (½ point) Processing includes getting inputs
- ☐ (½ point) Each result calculated
- ☐ (½ point) Processing includes displaying outputs
- ☐ (½ point) Variable names are appropriate (camelBack)

**Screen Layout**

- ☐ (½ point) Screen layout includes textboxes for two inputs
- ☐ (½ point) Inputs labeled properly
- ☐ (½ point) Layout includes labels for six outputs
- ☐ (½ point) Layout appearance is appropriate

**TOE**

- ☐ (½ point) Task list includes *getting* two inputs
- ☐ (½ point) Object names for inputs appropriate
- ☐ (½ point) Events for all inputs designated as None
  
- ☐ (½ point) Task list includes calculating six results
- ☐ (½ point) Object for all calculations is calculate button
- ☐ (½ point) Event for all calculation is Click (for calculate button)
  
- ☐ (½ point) Task list includes clearing the form
- ☐ (½ point) Object list for clearing form includes btnClear, all input fields, all output fields
- ☐ (½ point) Clear Object/Event is Clear button Click
- ☐ (½ point) Task list includes ending program
- ☐ (½ point) End program Object/Event is Exit button Click
  
- ☐ (½ point) Task list includes displaying all outputs
- ☐ (½ point) Objects for outputs named appropriately (labels)
- ☐ (½ point) Events for all outputs designated as Calculate button Click

## Pseudocode

### btnCalculate.Click

- ☐ (½ point) Event name designated
- ☐ (½ point) All inputs first transferred to variables
- ☐ (½ point) Equation for sum correct
- ☐ (½ point) Equation for difference correct
- ☐ (½ point) Equation for product correct
- ☐ (½ point) Equation for quotient correct
- ☐ (½ point) Equation for integer quotient correct
- ☐ (½ point) Equation for remainder correct
- ☐ (½ point) Equation results transferred to labels
- ☐ (½ point) Outputs include entire equation (n1, operator, n2, result)
- ☐ (½ point) End statement included
- ☐ (½ point) Statements between event name and End indented

### btnClear.Click

- ☐ (½ point) Event name designated
- ☐ (½ point) Two textboxes cleared (inputs)
- ☐ (½ point) Six output labels cleared
- ☐ (½ point) End statement included
- ☐ (½ point) Statements between event name and End indented

### btnExit.Click

- ☐ (½ point) Event name designated
- ☐ (½ point) Command to close form included
- ☐ (½ point) End statement included
- ☐ (½ point) Statements between event name and End indented

### **Flowchart** Update to reflect changes to pseudocode

- ☐ (½ point) Flowchart logic matches pseudocode logic, line for line
- ☐ (½ point) Correct terminal symbols used
- ☐ (½ point) Correct symbols used when transferring inputs to variables
- ☐ (½ point) Correct symbols used for calculations
- ☐ (½ point) Correct symbols used for transferring outputs to labels
- ☐ (½ point) Correct symbols used for clearing objects
- ☐ (½ point) Correct symbol used for closing form

### **Test Plan**

- ☐ (½ point) Test plan includes five sets of sample inputs
- ☐ (½ point) Anticipated equations provided for each set of sample data
- ☐ (½ point) Anticipated results provided for each set of sample data
- ☐ (½ point) Test plan includes one instance where number 1 is 0
- ☐ (½ point) Test plan includes at least one negative value
- ☐ (½ point) One input that causes error included
- ☐ (½ point) Sample data varied enough to test program