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| Name |  | |  |
| Score | / 10 |  |  |
| Update Value | |  |  |

Programming Logic - Beginning

152-101

Unit 4:

- ¼ point for each incorrect answer

Clues to answers can be found in Chapter 3 of the book and/or my Unit 4 Instructor’s Notes

**True or False.**

Use the highlighter tool to select either T or F.   
If the answer is false, write why the answer is false at the end of the question.

1. The following are valid variable names.

1. T F rs6S6
2. T F mix-Up
3. T F stop!
4. T F exam1
5. T F september1Lecture
6. T F 2May
7. T F mike’s
8. T F first Exam
9. T F j
10. T F three

2. Use the highlighter tool to highlight the BEST answer.

1. The value of 15.0 / 2.0 is:  
   (i) 7 (ii) 7.5 (iii) 7 ½ (iv) 0.75 (v) none of these
2. The value of 18 / 3.0 is:  
   (i) 6 (ii) 0.167 (iii) 6.0 (iv) none of these
3. The value of 21 / 6 is:  
   (i) 3 (ii) 3.5 (iii) 4 (iv) 4.5
4. The value of 22 % 7 is:  
   (i) 3 (ii) 1 (iii) 3.142 (iv) 22/7
5. The value of 5 % 7 is:  
   (i) 0 (ii) 2 (iii) 5 (iv) undefined
6. The value of 5 – 3.0 + 2 is:  
   (i) 0 (ii) 0.0 (iii) 4 (iv) 4.0
7. The value of 7 – 5 \* 2 + 1  
   (i) -2 (ii) 5 (iii) -4 (iv) none of these

3. Determine the result of each of the following expressions.  
int x=5;   
int y=6;   
int z=4;   
double w=3.5;

1. (x + z) % y Click and type
2. (x + y) % z Click and type
3. (x + y) \* w Click and type
4. x % y / z Click and type
5. (y % z) % x Click and type
6. (x \* z) % y Click and type
7. ((x \* y) \* w) \* z Click and type

4. Do a walkthrough of the code to the right to determine the value of e.

(All variables are **integers**)

a = 3;

b = 4;

c = (a % b) \* 6;

d = c / b;

e = (a + b + c + d) / 4;

The final value of **e** is: Click and type

5. Write C# statements to accomplish the following:

1. Declares integer variables **x** and **y**.  
   statement: Click and type
2. Initializes string variable **grade** to B  
   statement: Click and type
3. Updates the value of the integer variable **x** by adding 5 to it.  
   statement: Click and type
4. Declares a double variable z and initializes its value to 25.3  
   statement: Click and type
5. Copies the content of a variable **y** into a variable **z**  
   statement: Click and type
6. Declares a date variable *Christmas* and sets its value to December 25, 2012

statement: Click and type

6. Write the following as C# expressions

1. b equals 10 times a  
   expression: Click and type
2. The string literal that represents **8**  
   expression: Click and type
3. b2 – 4ac  
    2a  
   expression: Click and type
4. dueDate equals Today’s date plus 30 days  
   expression: Click and type

7. What are the values for these variables after the statements in the box are executed?

(w, x, y and z are integers)

x = 5;

z = 3;

y = x – z;

z = 2 \* y + 3;

w = x – 2 \* y + z;

z = w – x;

w += 1;

x value: Click and type  
y value: Click and type  
z value: Click and type  
w value: Click and type

8. What are the values for these variables after the statements in the box are executed?

(x, y and z are integers w and t are doubles)

x value: Click and type  
y value: Click and type  
z value: Click and type  
w value: Click and type  
t value: Click and type

x = 17;

y = 15;

x = x + y / 4;

z = x % 3 + 4;

w = 17 / 3 + 6.5;

t = x / 4.0 + 15 % 4 – 3.5