Name:_____ Date: _____

Grade Six Computers: BASIC Computer Programming Unit Test

Answer the following questions in the space provided. If you need more room, use a separate sheet of paper and number your answers accordingly.

1. What are the two main types of variables used in BASIC? Give an example for each one. (4 marks)

   _____

   _____

   _____

   _____

2. Show what the output will be for the following code: (2 marks)
   a=173
   b=241
   print “Benjamin’s running number is “;b

   _____

3. What is the purpose for the *input* command? Write a line (or two) to demonstrate its use. (2 marks)

   _____

   _____

   _____

   _____

4. Write the symbols used in BASIC for the following mathematical operators: (4 marks)
   a. _____ addition
   b. _____ subtraction
   c. _____ multiplication
   d. _____ division

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5. What is the command or function used to create a random number in BASIC? (1 mark)

_____

6. Write the output for the following code: (1 mark)

```
x=123.45678
y=int(x)
print y
```

_____

7. Study the following code:

```
passcode=1492
secretcode=1942
print "please enter the secret code:"
input secret
if secret=passcode then print "You are ready to begin!" else print "Access DENIED!"
```

If the user enters the number 1942, write the final output of the program. (2 marks)

_____

8. Using 10 or less lines of code, write a program that will display the message, "*Mr. Fuller likes Werther's Original!*" 25 times. (4 marks)

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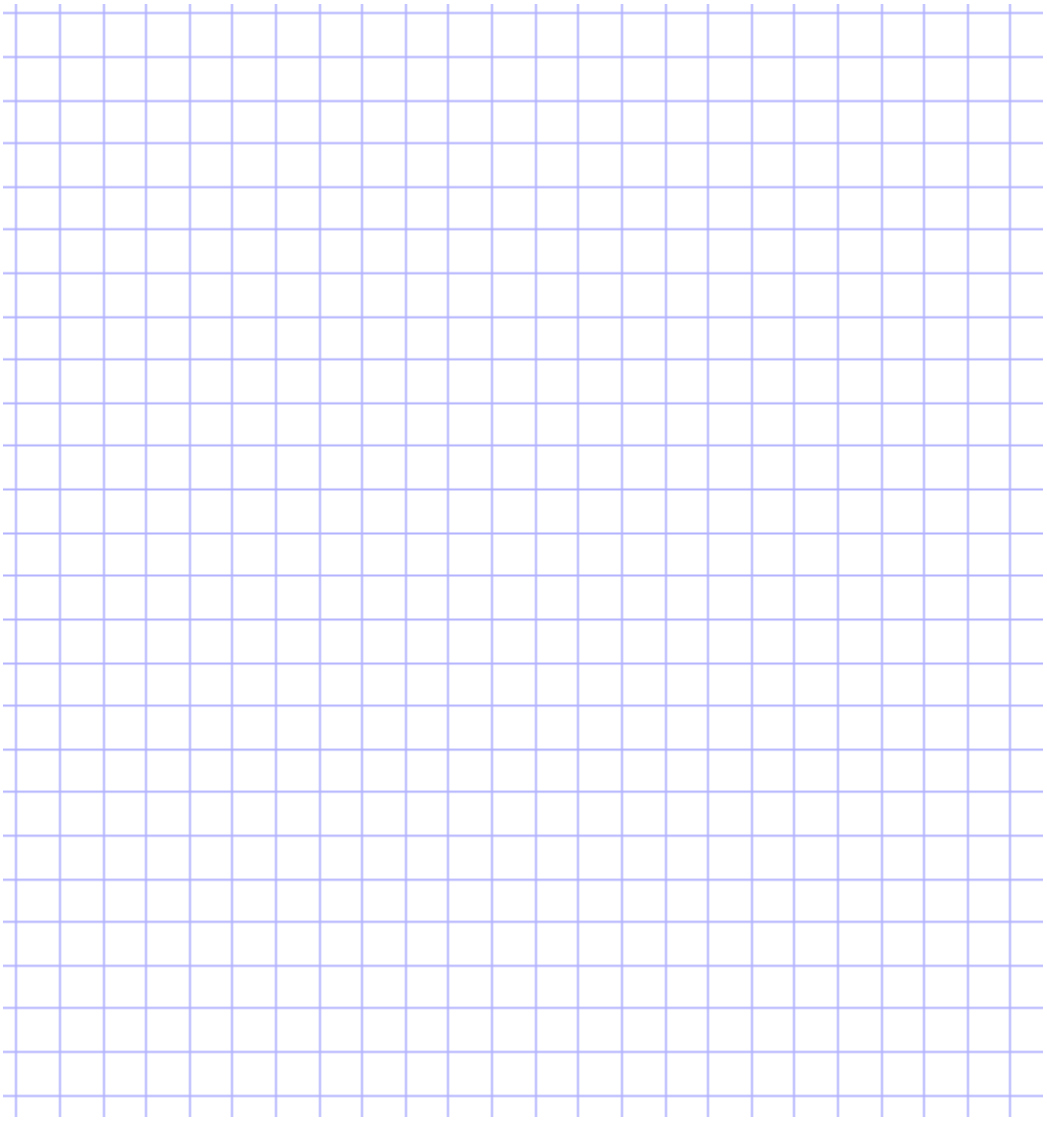
9. Write a code that will:
    a. ask for the user's name (1 mark)
    b. assign a random number to two separate variables (2 marks)
    c. display an addition question using the two random numbers (1 mark)
    d. have the user answer the question (1 mark)
    e. display a message telling the user if he/she gave the correct or incorrect answer (2 marks)



10. **Bonus**: On a separate sheet of paper or on the back of this sheet, write an algorithm or code that will determine if a number entered by a user is odd or even. (3 marks).