**Test 1 Practice**

1. What kind of datatype is appropriate for the following:
   1. The result of multiplying 8 by 9
   2. The result of dividing 19 by 4
   3. How many boxes of paper are in the store room
   4. A temperature in Fahrenheit
   5. The evaluation of 6 > 3
2. Mark if the identifier is valid, not valid, or "not kosher"; if it is not valid or not kosher tell me why and enter a better – correct – identifier.

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Valid/Not Valid/Not Kosher** | **Why Not** | **New Identifier** |
| rad |  |  |  |
| 5num |  |  |  |
| short |  |  |  |
| string |  |  |  |

1. Mark what the following identifiers would be appropriate for.

|  |  |
| --- | --- |
| **Identifier** | **Appropriate for** |
| CandyCane |  |
| CHAITIN |  |
| number |  |
| correct |  |
| deweyDecNumber |  |

1. Rewrite the following statement so that it will correctly calculate the average of 5 grades:

double average = grade1 + grade2 + grade3 + grade4 + grade5;

1. Write the following equation into a Java statement:

dAnswer = 

1. Write the following equation into a Java statement:

a2 – b2 = c

1. Write the output for the following Java statements, given that int x = 3 and int y = 7:
2. System.out.println( y / x );
3. System.out.println( (double)y / x);
4. System.out.println( x++ );
5. System.out.println( --y );
6. System.out.println( y % x );
7. Write the Java statement that will read the input from the keyboard.
8. Write the Java statement that declares a variable which has an identifier/name, num, which holds whole number.
9. Write the Java statement that reads in a value from the keyboard to the variable num.
10. Write the Java statement that declares and assigns a constant, THREE, the value of 3.
11. Write the Java statement that will compare 3 > 4 and assign the result to the variable larger.
12. Write the Java statement that will state if 4 is equal to 4 and assign the result to the variable equalTo.
13. What is the output of the following code? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

int powerBallNum = 17;

boolean jackpot = (powerBallNum == 14);

System.out.println( jackpot );

1. The code below should print true if the value in age is 65 or older. Fill in the blank to complete the code.

int age = 68;

boolean seniorCitizen = (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_);

System.out.println( seniorCitizen );

1. Rewrite the following to a Java test statement (that could be used for an if statement or Boolean expression):

1 <= numberOfDaysInAMonth <= 31

1. Write an if statement that increases pay by 3% if score is greater than 90, otherwise increase pay by 1%.

Relational Operators: < <= > >= == !=

if statements, if.. else, if..else if..else, switch statments

write the code to find out if num is even or odd

go through the Check Points