Java Module – Lesson 2A - Quiz 2A **Name**_____

1. A(an) _____ is a type of data with a memory location that contains the memory location of a value.
2. Create an initialization statement assigning your name to an appropriate **constant**.

   _____
3. The type of data that is a memory location containing a value is a(an)

   _____
4. Is this identifier **valid** or **not valid**? (Circle one)
   If **not valid**, briefly explain._____

   `&name`
5. Is this identifier **valid** or **not valid**? (Circle one)
   If **not valid**, briefly explain._____

   `time_of_day`
6. Is this identifier **valid** or **not valid**? (Circle one)
   If **not valid**, briefly explain._____

   `4You`
7. If the absolute minimum value of an integer type of data is -9, and then 1 is subtracted from that value in a variable of that data type, what value does the variable contain now?_____
8. List the Java name of one of the two transcendental numbers contained in the Java language.

   _____
9. Circle any value listed below that is NOT a maximum value of a Java data type.

   127 128 32767 32768 2147483647 2147483648
10. In each blank shown, list the number of bits required to store each data type.

    byte ____
    short ____
    char ____
    int ____
    long ____
    float ____
    double ____

Java Module – Lesson 2A – Quiz 2A – Key

1. object
2. `final String name = "John";`
3. primitive
4. Not Valid - cannot start with a symbol
5. Valid
6. Not Valid - cannot start with a digit
7. 8
8. `Math.PI` or `Math.E`
9. 128 32768 2147483648
10. byte 8
    short 16
    char 16
    int 32
    long 64
    float 32
    double 64