Name	

## **Primitive and String Variables**

Write the following variable declarations.

- 1) An integer called **num**
- 2) An integer call **sum**
- 3) A real number called **product**
- 4) A real number called amount
- 5) An integer called temp
- 6) An integer called **count**
- 7) A string called **name**
- 8) A string called **title**

## Write the following assignment statements for the given variables.

```
int number, temp;
double money;
String message;
```

- 9) Assign 6 to number
- 10) Assign **100** to temp
- 11) Add temp to number and store the value back in number
- 12) Assign 2 times number plus 18.6 to money
- 13) Assign the value "Isn't this fun" to message

Indicate which of the following are valid assignment statements. For those that are invalid, give the reason. Use the following variable declarations.

```
int age, iQ;
      double income;
14)
                              15) income = 22000;
      age = 18;
                              17)
                                  income = 100 * (age +iQ);
16)
      iQ = aqe + 100;
18)
      iQ = 120.5;
                              19)
                                    age = iQ / 3;
                              21)
                                    iQ = 3 * age;
20)
      age + iQ = 150;
22)
                              23)
                                    income = income + 2000;
      age = 30.2;
```

For exercises 24 - 27, suppose num1, num2, and temp are declared as int variables. Indicate the contents of num1, num2, and temp at the end of each sequence of statements.

```
24.
      num1 = 5;
                                           25.
                                                 num1 = 31;
      num2 = -2;
                                                 num2 = 26;
      num1 = num1 + num2;
                                                  temp = num1;
      num2 = num2 - num1;
                                                 num1 = num2;
                                                 num2 = temp;
26.
     num1 = 0;
      num2 = 7;
      num1 = num1 + num2 * (-3);
      num2 = num2 + 4 * num1;
```

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## **Variables Worksheet 0**

**DIRECTIONS:** Fill in each blank with the correct answer/output. Assume each statement happens in order and that one statement may affect the next statement.

int x = 600;	<pre>out.println(x);</pre>
x = -80;	<pre>out.println(x);</pre>
byte b = 5;	<pre>out.println(b);</pre>
short $s = 32767;$	<pre>out.println(s);</pre>
double $d = 9.9;$	<pre>out.println(d);</pre>
d = 5.2;	<pre>out.println(d);</pre>
float f = 9.87f;	<pre>out.println(f);</pre>
long big = 555845;	<pre>out.println(big);</pre>
x = s;	<pre>out.println(x);</pre>
x = b + 10;	<pre>out.println(x);</pre>
int $z = 'A' + 1;$	<pre>out.println(z);</pre>
char $c = 'A' + 1;$	<pre>out.println(c);</pre>

1.	
2.	
3.	
4.	
5.	
6.	
7 🖟	<u> </u>
8 .	
9 🔐	
10	
11.	
12.	

Date :

## Variables Worksheet 1

**DIRECTIONS:** Fill in each blank with the correct answer/outpout. Assume each statement happens in order and that one statement may affect the next statement.

If any statements cause an error, write **ERROR** in the blank and treat the line that caused the error as if it did not exist.

not exist.				
int $x = 128;$	<pre>out.println(x);</pre>	//1	1.	
x = -98;	<pre>out.println(x);</pre>	//2	2.	
byte b = 24;	<pre>out.println(b);</pre>	//3	3.	
char c = 97;	<pre>out.println(c);</pre>	//4	4.	
double $d = 9.9;$	<pre>out.println(d);</pre>	//5	5.	
d = 5.2;	<pre>out.println(d);</pre>	//6	6.	
float f = 9.87f;	<pre>out.println(f);</pre>	//7	7.	
short $s = 350;$	<pre>out.println(s);</pre>	//8	8.	
int $z = A' + 5;$	<pre>out.println(z);</pre>	//9	9.	
c = 'A' + 5;	<pre>out.println(c);</pre>	//10	10.	
double $w = 'a' + 5;$	<pre>out.println(w);</pre>	//11	11.	
long $u = 'A' - 48;$	out.println(u);	//12	12.	
w = f+5;	<pre>out.println(w);</pre>	//13	13.	
b = (byte)x;	out.println(b);	//14	14.	<del></del>
w = 'A' * 2.0;	<pre>out.println(w);</pre>	//15	15.	
f=w;	<pre>out.println(f);</pre>	//16	16.	
u=982743L;	<pre>out.println(u);</pre>	//17	17.	
d = 3.2e2;	<pre>out.println(d);</pre>	//18	18.	=======================================
s=c;	<pre>out.println(s);</pre>	//19	19.	
z = w;	<pre>out.println(z);</pre>	//20	20.	======

Name :		Da	nte :	
	Variables Worksheet 2			
DIRECTIONS: Fill in	n each blank v	with the correct an	swer/output.	
byte	8 bit integer 16 bit intege		ype 065535 -128127 -3276832767 -2billion+8+2billion+7	
		number data type number data type		
DataType compatability RU		32 is a divisor of		
In the blanks below, write	in the data type	s that could fill the bla	ank that would not require a cast.	
1. $char c = < blank$	>			
2. byte b = < blank	>		,	
3. short $s = < blank$	: >			
4. int i = < blank >				
5. long r = < blank	> =			
6. float f = < blank				
7. double d = < blan	k >			
8. int a = (int)56.6	7; out.prin	ntln(a);		
9. long $u = (int)56$ .	67; out.prin	ntln(u);		
10. char $p = 'A' + 100$	; out.prim	ntln((int)p);		
11. double $g = 56.67$	d; out.prin	ntln(g);		
12. float $v = (int)5$	6.67; ou	ut.println(v);		