This quiz is to be taken **by yourself** with closed books, closed notes, no electronic devices.

(Partial) Operator Precedence Table

<table>
<thead>
<tr>
<th>Operators</th>
<th>Associativity</th>
</tr>
</thead>
<tbody>
<tr>
<td>! ++ -- (pre &amp; post inc/dec)</td>
<td>right to left</td>
</tr>
<tr>
<td>* / %</td>
<td>left to right</td>
</tr>
<tr>
<td>+ -</td>
<td>left to right</td>
</tr>
<tr>
<td>&lt; &lt;= &gt; &gt;=</td>
<td>left to right</td>
</tr>
<tr>
<td>== !=</td>
<td>left to right</td>
</tr>
<tr>
<td>&amp;&amp;</td>
<td>left to right</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>=</td>
<td>right to left</td>
</tr>
</tbody>
</table>


```
int a = 2;
int b = -1;
int c = 7;
boolean exp1 = a + b * c >= a + c * b; _________
(value of exp1)

boolean exp2 = !(c + a < b); _________
(value of exp2)

boolean exp3 = b - a >= c; _________
(value of exp3)

boolean z = exp1 && !exp2 || exp3;
System.out.println( "z = " + z );
_______________

z = exp1 || exp2 && exp3;
System.out.println( "z = " + z );
_______________

b = --b + ++a % 4 * c++ * 2;
System.out.println( "a = " + a );
_______________

System.out.println( "b = " + b );
_______________

System.out.println( "c = " + c );
_______________
```

2. Which of the following are valid Java identifiers? (Circle your answer(s)).

3rdLine  The_Avengers  one/two  Int
nine2five  lower-half  Seven%Solution  Ex2_3_4

3. The naming convention for a method name is (Circle correct letter)
   A. start with uppercase, rest mixed
   B. start with lowercase, rest mixed
   C. all lowercase letters with underscores
   D. all uppercase letters with underscores

   *(Continued on other side)*
4. What is the symbol '!' affectionately known as in computer lingo?

5. What gets printed with each of the following statements?

```java
int a = 9;
int b = 3;
int c = 4;
System.out.println( (a + b) + c + " = " + a + b + c );
System.out.println( a + (b + c) + " = " + (a + b) + c );
System.out.println( a + b + c + " = " + a + (b + c) );
```

6. What gets printed?

```java
int x = 5, y = 5, z = 5;
if ( x == 5 )
    if ( y >= 7 )
        z = z + 4;
else
    z = z + 2;
System.out.println( z );
```

Answer: ________  What gets printed?

7. If multiplication had lower precedence than addition, then the value of the expression

\[ 3 \times 2 + 5 \times 4 \]

would be ___________.

8. What Java keyword is used to specify an identifier is constant (cannot be changed once it is set)?

__________________