```
What will be the output of the following Java code? class increment {
    public static void main(String args[])
    {
       int g = 3;
       System.out.print(++g * 8);
    }
  }"
a) 25
b) 24
c) 32
d) 33
Answer: c
Explanation: Operator ++ has more preference than *, thus g becomes 4 and when multiplied by 8
gives 32.
What will be the output of the following Java code?
class area {
    public static void main(String args[])
       double r, pi, a;
       r = 9.8;
       pi = 3.14;
       a = pi * r * r;
       System.out.println(a);
    }
  }"
a) 301.5656
b) 301
```

```
c) 301.56
d) 301.56560000
Answer: a
What will be the output of the following Java code?
class conversion
  {
    public static void main(String args[])
    {
       double a = 295.04;
      int b = 300;
       byte c = (byte) a;
       byte d = (byte) b;
      System.out.println(c + "" ""
    }
  }"
a) 38 43
b) 39 44
```

Explanation: Type casting a larger variable into a smaller variable results in modulo of larger variable by range of smaller variable. b contains 300 which is larger than byte's range i:e -128 to 127 hence d contains 300 modulo 256 i:e 44.

c) 295 300

Answer: b

d) 295.04 300

```
What will be the output of the following Java program?
class increment
  {
    public static void main(String args[])
    {
      double var1 = 1 + 5;
      double var2 = var1 / 4;
      int var3 = 1 + 5;
      int var4 = var3 / 4;
      System.out.print(var2 + "" "" + var4);
    }
  }"
a) 11
b) 0 1
c) 1.5 1
d) 1.5 1.0
Answer: c
What will be the output of the following Java program?
class bitwise_operator
  {
    public static void main(String args[])
      int var1 = 42;
```

```
int var2 = ~var1;

System.out.print(var1 + "" "" + var2);

}

a) 42 42

b) 43 43

c) 42 -43

d) 42 43

Answer: c
```

Explanation: Unary not operator, ~, inverts all of the bits of its operand. 42 in binary is 00101010 in using ~ operator on var1 and assigning it to var2 we get inverted value of 42 i:e 11010101 which is - 43 in decimal.

What will be the output of the following Java program?

```
class leftshift_operator
{
    public static void main(String args[])
    {
        byte x = 64;
        int i;
        byte y;
        i = x << 2;
        y = (byte) (x << 2)
        System.out.print(i + "" "" + y);
    }
}"</pre>
```

a) 0 64

```
b) 64 0
c) 0 256
d) 256 0
Answer: d
What will be the output of the following Java code?
class operators
  {
    public static void main(String args[])
      int var1 = 5;
      int var2 = 6;
      int var3;
      var3 = ++ var2 * var1 / var2 + var2;
      System.out.print(var3);
    }
  }"
a) 10
b) 11
c) 12
d) 56
```

Answer: c

Explanation: Operator ++ has the highest precedence than / , * and +. var2 is incremented to 7 and then used in expression, var3 = 7 * 5 / 7 + 7, gives 12.

What will be the output of the following Java code? class operators { public static void main(String args[]) { int x = 8; System.out.println(++x * 3 + "" "" + x); } } a) 24 8 b) 24 9 c) 27 8 d) 27 9 Answer: d Explanation: Operator ++ has higher precedence than multiplication operator, *, x is incremented to 9 than multiplied with 3 giving 27. What will be the output of the following Java code? **Class Output** public static void main(String args[]) int x=y=z=20; } a) compile and runs fine b) 20 c) run time error

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d) compile time error

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Answer: d