Java Questions & Answers – Arithmetic Operators

1. Which of the following can be operands of arithmetic operators?  
a) Numeric b) Boolean c) Characters d) Both Numeric & Characters  
2. Modulus operator, %, can be applied to which of these?  
a) Integers b) Floating – point numbers c) Both Integers and floating – point numbers.   
d) None of the mentioned  
3. With x = 0, which of the following are legal lines of Java code for changing the value of x to 1?  
1. x++; 2. x = x + 1; 3. x += 1; 4. x =+ 1;  
a) 1, 2 & 3 b) 1 & 4 c) 1, 2, 3 & 4 d) 3 & 2   
4. Decrement operator, –, decreases value of variable by what number?  
a) 1 b) 2 c) 3 d) 4  
5. Which of these statements are incorrect?  
a) Assignment operators are more efficiently implemented by Java run-time system than their equivalent long forms.  
b) Assignment operators run faster than their equivalent long forms.  
c) Assignment operators can be used only with numeric and character data type.  
d) None  
6. What is the output of this program?

1. **class** increment {
2. **public** **static** **void** main(String args[])
3. {
4. **double** var1 = 1 + 5;
5. **double** var2 = var1 / 4;
6. **int** var3 = 1 + 5;
7. **int** var4 = var3 / 4;
8. System.out.print(var2 + " " + var4);
10. }
11. }

a) 1 1 b) 0 1 c) 1.5 1 d) 1.5 1.0  
7. What is the output of this program?

1. **class** Modulus {
2. **public** **static** **void** main(String args[])
3. {
4. **double** a = 25.64;
5. **int** b = 25;
6. a = a % 10;
7. b = b % 10;
8. System.out.println(a + " " + b);
9. }
10. }

a) 5.640000000000001 5 b) 5.640000000000001 5.0  
c) 5 5 d) 5 5.640000000000001  
8. What is the output of this program?

1. **class** increment {
2. **public** **static** **void** main(String args[])
3. {
4. **int** g = 3;
5. System.out.print(++g \* 8);
6. }
7. }

a) 25 b) 24 c) 32 d) 33  
9. What is the output of this program?

1. **class** Output {
2. **public** **static** **void** main(String args[])
3. {
4. **int** x , y;
5. x = 10;
6. x++;
7. --x;
8. y = x++;
9. System.out.println(x + " " + y);
10. }
11. }

a) 11 11 b) 10 10 c) 11 10 d) 10 11   
10. What is the output of this program?

1. **class** Output {
2. **public** **static** **void** main(String args[])
3. {
4. **int** a = 1;
5. **int** b = 2;
6. **int** c;
7. **int** d;
8. c = ++b;
9. d = a++;
10. c++;
11. b++;
12. ++a;
13. System.out.println(a + " " + b + " " + c);
14. }
15. }

a) 3 2 4 b) 3 2 3 c) 2 3 4 d) 3 4 4