

**What is the result of this operation?**

```
(int) 2.125 + (double) 13
```

**What term describes the output (or results) of a method?**

**Java allows inheritance through the use of what keyword?**

**DeMorgans Law: What expression is equivalent to**

`!(a || b)`

**True or False: An Array of primitive types can only contain a single type?**

**True or False: You can create an ArrayList of primitive types.**

```
ArrayList<boolean> answers;  
ArrayList<int> scores;
```

**What term describes the requirements needed for a method to work correctly?**

**True or False: The condition in a for, while, or if statement must evaluate to type boolean.**

```
while (1) {  
    System.out.println("Infinite loop!");  
}
```



**Methods and properties that you can access as members of a Class (rather than an instance) are called?**

```
Math.abs()  
String.valueOf()  
Integer.MAX_VALUE
```

**True or False: Statics in a class can directly access non-Statics in that class?**

**Having multiple methods in a class with the same name (but different arguments) is called?**

```
public int getTotal()  
public int getTotal(int num)  
public int getTotal(int[] scores)
```

**What is the one-variable boolean truth table for !**

$p$	$\neg p$

**Given two Strings s1 and s2, these two expressions always evaluate to the same boolean result.**

```
s1 == s2  
s1.equals(s2)
```

**True or False: The cast operator () must be used to convert from a subclass type to a superclass type.**

```
String str = "Hello, world!";  
Object obj = (Object) str;
```

**A "blueprint" from which you can create an instance is called?**

## What is the output of this block of code

```
if (true) {  
    System.out.println("A");  
    System.out.println("B");  
    if (false)  
        System.out.println("C");  
    else  
        if (false)  
            System.out.println("E");  
            System.out.println("F");  
} else  
    System.out.println("G");  
    System.out.println("H");
```



**DeMorgans Law: What expression is equivalent to**

`! (a && b)`

**If an initial value is not provided - To what values are these variables initialized?**

```
int i;  
double d;  
boolean b;  
String s;
```

**What is the condition called when a recursive Method will no longer call itself?**

**What are the results of these operations?**

10 / 2

15 / 2.0

23 % 10

(10 / 2) + (15 / 2.0) - (23 % 10)

**What are two other ways to write this expression?**

```
x++
```

**What keyword is used to indicate "the current Object instance"**

# What are the results of these operations?

```
"Hello" + " " + "Bob"  
"Test Score: " + 93  
"Area Code: " + "415"  
"Voting Age: " + 20 + 1
```

**Given a non-empty ArrayList aList - What is the smallest and highest index that can be passed to aList.get() without throwing an exception?**



**The method in a class that determines how to initialize the class is called?**

**True or False: A constructor requires arguments?**

**Constructors are very much like Methods with one very big difference - Constructors unlike Methods do not...**



**What does the following method call return:  
"foo".compareTo("bar")**

**What keyword is used by a subclass to call methods in its parent class?**

**True or False: A class can have multiple constructors?**

**What is the parent class of every class in Java?**

**True or False: Sub-classes can directly access the private methods and properties of its parent class.**

```
class Book {  
    private String name;  
}  
  
class TextBook extends Book {  
    public TextBook(String name) {  
        this.name = name;  
    }  
}
```



**If a class does not define a constructor - What does Java create?**

**If a superclass has 1 constructor which takes parameters, a subclass does not need to declare its own constructor.**

```
class Person {  
    public Person(String name) {...}  
}  
  
class Teacher extends Person {  
  
}
```

**What is the two-variable boolean truth table for  $\parallel$**

p	q	$p \parallel q$

**Isolating code in sub-classes that do not make sense in super-classes is called?**

**Moving similar code from sub-classes to super-classes is called?**

**Having a method in a child class with the same name, arguments, and return type as a method in a parent class is called?**

**Methods and properties of a class - that can be accessed by any other code - should be decorated with what keyword?**

**Methods are required to have a return type - What type is used if a Method does not return anything?**



**What keyword can be used to determine if an object "is-a" particular type?**

**What types of variables are these?**

```
int, double, boolean
```

**True or False: A super-class can always be used where an instance of a sub-class is expected?**

**True or False: Non-Statics in a class can directly access Statics in that class?**

**What is it called when a Method calls itself?**

**True or False: A sub-class can always be used where an instance of a super-class is expected?**

**True or False: Statics in a class can directly access other Statics in that class?**

**Given an non-empty Array a1 - What is the smallest and highest index that can be passed to a1[] without throwing an exception?**



**What is the two-variable boolean truth table for &&**

p	q	p && q

**True or False: An Array of Object types can only contain a single type?**