

### Pregunta 1

Given the code fragment:

```
3. public static void main(String [] args){  
4.     int ivar=100;  
5.     float fvar=23.4f;  
6.     double dvar=20;  
7.     ivar=fvar;  
8.     fvar=ivar;  
9.     dvar=fvar;  
10.    fvar=dvar;  
11.    dvar=ivar;  
12.    ivar=dvar;  
13. }
```

Which three lines fails to compile?

- A. Line 7
- B. Line 8
- C. Line 9
- D. Line 10
- E. Line 11
- F. Line 12

## Pregunta 2

Which of the following compiles with no errors? (choose 4)

- A. `int a = 2.7;`
- B. `byte n=(byte) 4546.9;`
- C. `int c=0b110_100;`
- E. `double t =_6.4;`
- F. `float g = 23;`
- G. `short k =(short)45L;`
- H. `boolean n =(boolean)1;`
- I. `char vv=300000;`

### Pregunta 3

Given:

```
public class Marca{  
    int num;  
  
    public static void save(Marca obj4){  
        obj4.num+=10;  
    }  
  
    public static void main(String[] args){  
        Marca obj1=new Marca();  
        Marca obj2=obj1;  
        Marca obj3=null  
        obj2.num=60;  
        save(obj2);  
    }  
}
```

How many Marca instances are created at runtime?

- A. 1
- B. 2
- C. 3
- D. 4

#### Pregunta 4

Given:

```
1. public class Test{  
2.     public static void main(String[] args){  
3.         Integer uno, dos;  
4.         uno=new Integer (10);  
5.         dos=new Integer(20);  
6.         uno=dos;  
7.         uno=null;  
8.     }  
9. }
```

When the objects created in lines 10 and 20 will be eligible for Garbage collection ?

- A. Both in line 8
- B. Both in line 9
- C. Both in line 7
- D. 10 in line 6 and 20 in line 7
- E. 10 in line 6 and 20 in line 8

### Pregunta 5

Given the following code:

1. Integer k=5;
2. int p=10, s;
3. k=k+p;
4. s=k;
5. System.out.println(s);

What is the result?

- A. 15
- B. 5
- C. Compilation error in line 3
- D. Compilation error in line 4

### Pregunta 6

Given:

```
public class Tester{  
    static double res;  
  
    int a=1, b=3;  
  
    public static void main(String[] args){  
        double a, b, c; //line 1  
  
        if(res==0){ //line 2  
            a=1.5;  
            b=2;  
            c=1;  
        }  
  
        res=a*b*c; //line 3  
  
        System.out.println("result "+res);  
    }  
}
```

What is the result?

- A. result 3.0
- B. result 0.0
- C. Compilation fails at line 1
- D. Compilation fails at line 2
- E. Compilation fails at line 3