|  |  |  |  |
| --- | --- | --- | --- |
| NUMBER | PROPERTY | OVERLOADING | OVERRRIDING |
| 1 | METHOD NAME | SAME | SAME |
| 2 | ARGUMENT TYPE | Must be different(at least order) | Must be same(  Including order) |
| 3 | Method signature | Must be different | Must be same |
| 4 | Return types | No Restrictions | Must be same  Until 1.4 verson  But 1.5 onwards  Co-vairent retuen also  alllowed |
| 5 | Private,static  Final,methods | Can be overloaded | Can be overridden |
| 6 | Access Mofiers | No restrication | We cat reduce  Scope of access  Modifier but  We can increase the  Scoope |
| 7 | Throws | No retraction | If child class method throws any check  Check exception  Compulsory parent class method  Should throw same  Exception or its parent  But no restrication  For the unchecked  Exceptin |
| 8 | Method resolution | Always take care  By the complier  Based on the  Reference type | Always take care  By the JVM  Base on the  Run time Object |
| 9 | It is called  As | Static  Compile Time  Early Binding  Polymorphism | Dynamic  Run time  late Binding  PolyMorphism |

Some case should you know

Parent class has Method

Public void m1(int x) throws IOException

Child class methods

1. public void m1(int i)

overloding

2 ) public static int m1(long l)

Overloding allowed

3)public static void m1(int i)

non-static to can not possible In overriding

4)

Public static m1(int i) throws Exception

Not overriding support

5)

Public static abstract m1(double d)

In illeageal combination of modifier