Instanceof, Class.isInstance, Class.isAssignableFrom

| **Property** | ***instanceof*** | ***Class.isInstance*** | ***Class.isAssignableFrom*** |
| --- | --- | --- | --- |
| Kind | keyword | native method | native method |
| Operands | An object and a type | A type and an object | One type and another type |
| Null handling | *false* | *false* | *NullPointerException* |
| Primitive types | Not Supported | Supported, but always *false* | Yes |
| Class instance variable | No | Yes | Yes |
| Bytecode | *instanceof* | *invokevirtual* | *invokevirtual* |
| Most suitable when | The object is given, type is known at compile time | The object is given, the target type is not known at compile type | No object is given, only types are known and only at runtime |
| Use cases | Daily use, suitable for the majority of cases | Complex and untypical cases such as implementing a library or a utility with the use of Reflection API | |

https://www.baeldung.com/java-isinstance-isassignablefrom