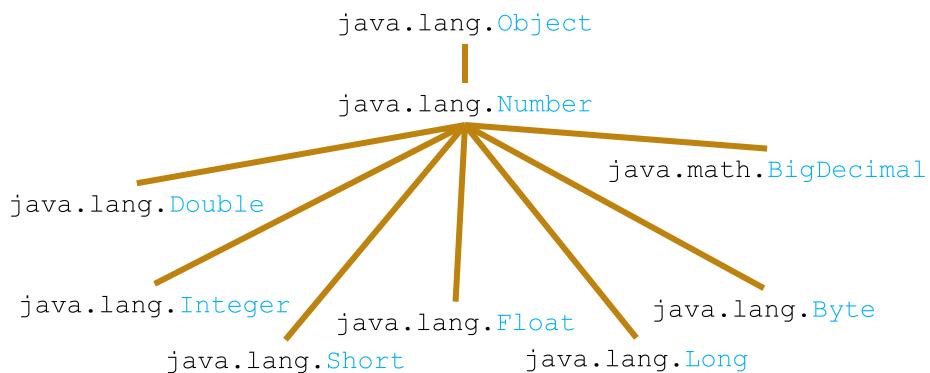


The Number Classes

"Boxed" analogues to primitive number types (J3)



The Number Classes

Number classes have methods (primitives do not)

toString(),parseInt(),etc.

Number classes have constants

• Integer.MIN_VALUE, Short.MAX_VALUE, etc.

Number classes have a space overhead

- Instantiated as true objects
- Inheritance, Subtyping (implement interfaces)



Autoboxing

Classes such as Integer and Character are boxed versions of the corresponding primitive types (e.g. int and char).

Java offers automatic support for boxing and unboxing.

- Boxing: Integer i = 5;
- Unboxing: int j = i;



The Math class

The Math class contains methods and constants useful for basic mathematics:

- Constants: Math.Pl and Math.E
- Trigonometry: sin(), cos(), etc.
- Rounding: abs(), ceil(), floor(), etc.
- Comparison functions: max(), min()
- Exponentials and logs: exp(), log(), pow(), etc.
- Random number generation: random ()

