Built-in wrapper classes.

- belong to java.lang
- Each primitive data type has a corresponding reference type.

int	Integer
long	Long
short	Short
byte	Byte
char	Character
float	Float
double	Double
boolean	Boolean
This all have one date field, wrapped in an object.

Ex:

```java
Integer A = new Integer(6);
```

create:

```
   A
  [2] →  [6]
   Integer Object
```

Integer also has methods for converting int to String, String to int, and other
Constants & methods helpful in working with Int:

Documentation in javalang.Integer

Some methods:

- compareTo()
- equals()
- toString()
- doubleValue()
- parseInt()

Some constants

MAX_VALUE
MIN_VALUE
\begin{itemize}
\item \textbf{note:}
\item \texttt{Integer A = new Integer(6)}
\item has a shortcut:
\item \texttt{Integer A = 6;}
\item \textbf{Similar to:}
\item \texttt{String S = new String("harry");}
\item \texttt{String S = "harry";}
\end{itemize}
Exercise:
Write Test programs for the wrapper classes of other primitive types.

Rational number:
\[
\frac{a}{b} \quad \text{where } a, b \text{ are integers and } b \neq 0.
\]

Ex. Rational.java

Note:
\[
\frac{2}{-4} = \frac{-2}{4} = \frac{-1}{2}
\]