```java
// All int, all real (double), and mixed calculation

public class MixNumTypes
{
   public static void main(String [ ] args)
     {
         // Calculate number of weeks in 31-day month using int variables
         int nDaysMonth = 31;
         int nDaysWeek = 7;
         int nWeeks = nDaysMonth / nDaysWeek;  // fractional part of week tossed out
         System.out.println("Number of weeks (all int) = " + nWeeks);

         // Calculate number of weeks in 31-day month using double (real) variables
         double numDaysInMonth = 31.0;    // Could just use "31", but this is clearer
         double numDaysWeek = 7.0;
         double numWeeks = numDaysInMonth / numDaysWeek;
         System.out.println("Number of weeks (all real) = " + numWeeks);

         // mix double and int in expression and result is double
         numWeeks = numDaysInMonth / nDaysWeek;    // double divided by int
         System.out.println("Number of weeks (mixed) = " + numWeeks);

         // nWeeks = numWeeks;    // assign double to int (not allowed by Java)
     }
}

=============== Sample Run =========================

Number of weeks (all int) = 4
Number of weeks (all real) = 4.428571428571429
Number of weeks (mixed) = 4.428571428571429
```