

```
1 import java.util.Scanner;
2
3 public class shorterMixedNumbers {
4
5
6     public static int wholeNumber(int numerator, int denominator)
7     {
8         return numerator/denominator;
9     }
10
11
12     public static int remainder(int numerator, int denominator)
13     {
14         return numerator%denominator;
15     }
16
17
18     public static int commonDenominator(int numerator, int denominator)
19     {
20         int common = 1;
21         for(int i=2;i<=numerator;i++){
22             if (numerator%i==0 && denominator%i==0){
23                 common=i;
24             }
25         }
26         return common;
27     }
28
29
30     public static void main(String[] args)
31     {
32         int denominator;
33         int numerator;
34         int a;
35         int b;
36         int c;
37         int cd;
38
39         // numerator/denominator = a (b/cd)/(c/cd)
40
41         Scanner scan = new Scanner(System.in);
42
43         System.out.print("Enter your numerator. ");
44         numerator = scan.nextInt();
45
46         System.out.print("Enter your denominator. ");
47         denominator = scan.nextInt();
48
49         System.out.println(numerator + "/" + denominator);
```

```
50
51     a=wholeNumber(numerator,denominator);
52
53     b=remainder(numerator,denominator);
54
55     c=denominator;
56
57     cd=commonDenominator(b,c);
58
59     System.out.println(numerator + "/" + denominator+" = "+a + " "+b/c
60     d+"/ "+c/cd);
61     }
62 }
```