MathTutor Mastery ReflectionLog

Within the division section of my code I was defining a double variable with int calculations

```
//Decides on operator
if (rand == 1) {
    double ans = (num1 + num2);
    System.out.print(num1 + " + " + num2 + " : ");
    double user = userInput.nextInt();
    if (user == ans) {
        System.out.print("Correct!");
    } else {
        System.out.print("Incorrect, the correct answer was " + ans);
} else if (rand == 2) {
    double ans = (num1 - num2);
System.out.print(num1 + " - " + num2 + " : ");
    double user = userInput.nextInt();
    if (user == ans) {
        System.out.print("Correct!");
    } else {
        System.out.print("Incorrect, the correct answer was " + ans);
} else if (rand == 3) {
   double ans = (num1 * num2);
    System.out.print(num1 + " * " + num2 + " : ");
    double user = userInput.nextInt();
    if (user == ans) {
        System.out.print("Correct!");
        System.out.print("Incorrect, the correct answer was " + ans);
} else if (rand == 4) {
    double ans = ((double) num1 / num2);
    System.out.print(num1 + " / " + num2 + " : ");
    double user = userInput.nextInt();
    if (user == ans) {
        System.out.print("Correct!");
} else {
   System.out.print("Incorrect, the correct answer was " + ans);
}
```

The following error would result.

To fix this I used type casting, pictured below

```
else if (rand == 4) {
  double ans = ((double) num1 / num2);
  System.out.print(num1 + " / " + num2 + " : ");
  double user = userInput.nextInt();
  if (user == ans) {
     System.out.print("Correct!");
```