Credit Name: CSE 2140 2nd Language Programming

Assignment Name: Exercise 6 - Math Tutor

Error Log Entry

What error message did you encounter (if any)?

```
4 / 8 = 0.5
Exception in thread "main" java.util.InputMismatchException
        at java.base/java.util.Scanner.throwFor(Scanner.java:947)
        at java.base/java.util.Scanner.next(Scanner.java:1602)
        at java.base/java.util.Scanner.nextInt(Scanner.java:2267)
        at java.base/java.util.Scanner.nextInt(Scanner.java:2221)
        at Mastery.mathTutor.main(mathTutor.java:26)
```

```
4 / 5 = 0.8
Sorry, incorrect!
The correct answer is:0
```

```
6 / 10 = 0.6
Sorry, incorrect!
The correct answer is:0.0
```

What unexpected behavior did your program exhibit?

The answer didn't want to round properly, or sometimes it just entirely gave the wrong answer.

What caused the issue? (e.g., syntax error, logic error, incorrect function usage, etc.)

Logic error

Include a screenshot of specific lines of code.

```
int guess = input.nextInt();
```

```
else if(randomOperator == '/')
{
    answer = (num1 / num2) + (num1 % num2);
}
```

How did you fix the issue?

In order to get rid of the first error message I needed to change the nextInt to nextDouble so the user could enter a decimal number.

To fix the calculation errors, I had to find a way that could round it to tenths place, by multiplying the answer by 10 to get the first decimal into the whole numbers and then using the Math.round feature to round it to the closest whole number, then lastly divide it by 10 to bring it back into a decimal number

Provide the corrected code or solution using a screenshot.

```
double guess = input.nextDouble();
```

and

```
else if(randomOperator == '/')
{
    answer = (double) num1 / num2;
    answer = Math.round(answer * 10.0) / 10.0;
```