Mission #8

CS 1400 - Hilton

Body mass index is a measure of whether someone's weight is appropriate for their height. A body-mass-index value between 19 and 25 is considered to be in the normal range. Here's the formula for calculating body mass index:

$$bmi = \frac{704 \times weightInPounds}{heightInInches^2}$$

Implement a program that prompts the user for height and weight values and displays the associated body mass index.

Perform input validation by making sure that the user enters <u>positive numbers</u> for height and weight. Use error handling to catch any invalid input. See the sample session for details.

Sample session:

```
Enter height in inches: hi
Invalid inches value. Must be a number.
Re-enter height in inches: 0
Invalid inches value. Must be positive.
Re-enter height in inches: 69.25
Enter weight in pounds: dog
Invalid pounds value. Must be a number.
Re-enter weight in pounds: -3
Invalid pounds value. Must be a number.
Re-enter weight in pounds: -20
Invalid pounds value. Must be positive.
Re-enter weight in pounds: 150.5
Height = 69.25"
Weight = 150.5 pounds
Body mass index = 22.1
```

Submit your .java file containing the source code via WSU Online.