CS 150 Exam 1 Practice Questions

Goals:

- identify variables and datatypes
- input
- output
- calculations
- if

You are working as a server at a great Forest Grove restaurant. You earn a small wage per hour and get to keep 80% of your tips (20% goes to the cooks). Tips are generally pretty good but you want to figure out how money you make per hour by combining your wage per hour with the tips you received.

Write a small program that will ask the user for: wage per hour, hours worked, and total tips received. Display to the user the average amount earned per hour. See example below.

```
How many hours did you work? 10
What is your wage per hour? $5.75
How much did you collect in tips? $100

You earned: $13.75 per hour!
```

You need to calculate the area of a square and the area of a rectangle and determine which area is larger. Ask the user for the length and width of the rectangle and the length of a side of the square. Display a message on the screen that states which shape has a larger area. Two examples are shown below.

```
What is the length of the rectangle? 10
What is the width of the rectangle? 5

What is the length of the side of the square? 6

The rectangle is larger! 50 > 36!
```

```
What is the length of the rectangle? 2
What is the width of the rectangle? 4

What is the length of the side of the square? 5

The square is larger! 25 > 8!
```