**Variables Exercises**  
**1. All about me**  
  
Create Strings named [myName], [myEyes], [myTeeth], and [myHair].  
Create integers named [myAge] and [myHeight].  
  
Use the following values for your variables  
[myName] = "Mike G."  
[myAge] = 22  
[myHeight] = 74  
[myEyes] = "Blue"  
[myTeeth] = "White"  
[myHair] = "Light Brown"  
  
Print out the following lines:  
  
Let's talk about [myName].  
They're [myHeight] inches tall.  
They're [myAge] years old.  
Huh, that's younger than I expected...  
They have [myEyes] eyes and [myHair] hair.  
Their teeth are usually [myTeeth], but it depends on the coffee.  
Alright, this is pretty boring. Let's stop talking about [myName].  
  
WHAT YOU NEED TO DO  
1. Take the "my" out of the variable names! For instance, [myName] becomes [name].  
2. Remember to change those varible names EVERYWHERE. If the code doesn't work, make sure the variable names match up.  
3. Change the values to match your info. Your name might not be "Mike G.", so change it!  
4. Create a new variable that converts your height to centimeters. Make your program to the math!

**2. Carpool**  
  
Create integers named [cars], [drivers], [passengers], [cars\_not\_driven], and [cars\_driven].  
Create doubles named [space\_in\_a\_car], [carpool\_capacity], and [average\_passengers\_per\_car].  
Create doubles named [average\_miles\_driven], [average\_miles\_per\_gallon], [gas\_cost\_per\_gallon], and [money\_saved].  
Create double named [gas\_cost\_per\_trip]  
  
[cars\_not\_driven] should be equal to the difference between [cars] and [drivers]  
[cars\_driven] should be equal to the value of [drivers]  
[carpool\_capacity] should be equal to the product of [cars\_driven] and [space\_in\_a\_car]  
[average\_passengers\_per\_car] should be equal to the ratio of [passengers] to [cars\_driven]  
[gas\_cost\_per\_trip] should be equal to ([average\_miles\_driven] \* [gas\_cost\_per\_gallon])/[average\_miles\_per\_gallon]  
[money\_saved] should be equal to the difference between ([gas\_cost\_per\_trip] \* [cars]) and ([gas\_cost\_per\_trip] \* [cars\_driven])  
  
For the other variables, use the following values:  
[cars] = 100  
[space\_in\_a\_car] = 4.0  
[drivers] = 30  
[passengers] = 90  
[average\_miles\_driven] = 29.2  
[average\_miles\_per\_gallon] = 23.6  
[gas\_cost\_per\_gallon] = 2.517  
  
Print out the following lines to show off your calculations to the world!  
To clarify, anything in brackets means it's a variable!  
So [cars] is the variable you named cars.  
  
There are [cars] cars available.  
There are only [drivers] drivers available.  
That means there will be [cars\_not\_driven] empty cars today!  
We can transport [carpool\_capacity] people today.  
Out of that, we're transporting [passengers] today.  
So we'll need to put about [average\_passengers\_per\_car] in each car.  
Long story short, today, we'll be saving about $[money\_saved]!