CIS 255 - Java Programming
Homework #3
Arithmetic Java Classes

Name:			
Date:			

- 1. The equation to convert weight into kilograms to weight in pounds is p=2.2k, where p is pounds and k is kilograms. Write an <u>interactive</u> Java class named ConvertWeight which prompts the user to enter a weight in kilograms, calculates and prints the equivalent weight in pounds.
- 2. The equation for the volume of a box is $v = l \times w \times h$, where v is volume, l is the length of the box, w is the width, and h is the height. Write a Java class VolumeBoxCalc which calculates and prints the volume of a box with length 8 feet, width 3 feet, and height 4 feet. (Do not use interaction)
- 3. The equation for the volume of a cone is $v=\pi h r^2$ where v is the volume, h is the height, and r is the radius. Write an <u>interactive</u> Java class VolumeConeCalc which prompts the user to enter a height and a radius, calculates and prints the volume.
- 4. The equation to convert temperature in degrees Fahrenheit to temperature in degrees Celsius is $c=\frac{5}{9}(f-32)$, where c is degrees Celsius and f is degrees Fahrenheit. Write a Java class ConvertTemp which calculates and prints the Celsius equivalent of 88.0 degrees Fahrenheit. (Do not use interaction)
- 5. The equation for the circumference of a circle is $c=2\pi r$, where c is the circumference and r is the radius. Write an <u>interactive</u> Java class CircumferenceCalc which prompts the user to enter the radius, calculates and prints the circumference.