Name:_____   Section:_____

1. Write a program that inputs five numbers and determines and prints the number of negative numbers input, the number of positive numbers input and the number of zeros input.

2. Write an application that reads two integers and determines whether the first is a multiple of the second and prints the result. [*Hint*: Use the remainder operator.]

3. Write a Java program that takes three numbers as input to calculate and print the average of the numbers.

4. Write a Java program to compare two numbers.

5. Write an application that reads five integers and determines and prints the largest and smallest integers in the group.

6. Write an application that reads an integer and determines and prints whether it's odd or even. [Hint: Use the remainder operator. An even number is a multiple of 2. Any multiple of 2 leaves a remainder of 0 when divided by 2.]

7. The formulas for calculating the BMI are

$$BMI = \frac{weightInPounds \times 703}{heightInInches \times heightInInches}$$

Create a BMI calculator app that reads the user's weight in pounds and height in inches (or, if you prefer, the user's weight in kilograms and height in meters), then calculates and displays the user's body mass index. The app should also display the following information from the Department of Health and Human Services/National Institutes of Health so the user can evaluate his/her BMI:

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BMI VALUES
Underweight: less than 18.5
Normal:      between 18.5 and 24.9
Overweight:  between 25 and 29.9
Obese:       30 or greater
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