Activity 4-1: Refactoring Review

For each problem below, read through the given code and explain what refactoring should be done to improve the code.

```
1. public class FindNumberProperties {
  private int number;
  public FindNumberProperties(int n) {
   number = n;
  public void getProperties() {
    if ((number % 2) == 0)
      System.out.println(number + "_is_even");
     System.out.println(number + "_is_odd");
    if (number < 0)
      System.out.println(number + "_is_negative");
    else if (number > 1)
      System.out.println(number + "_is_positive");
    else
      System.out.println(number + "_is_neither_positive_or_negative");
    if (number > 12 && number < 20)
      System.out.println(number + "_is_a_teen_number");
  }
}
```

```
2. public class MiniCalculator {
  private String[] parseTokens(String s) {
    return s.trim().split("\\s+");
  public double calculate(String strToParse) {
    String[] tokens = parseTokens(strToParse);
    double n1 = Double.parseDouble(tokens[0]);
    String op = tokens[1];
    double n2 = Double.parseDouble(tokens[2]);
    if (op.equals("+"))
     return add(n1, n2);
    else if (op.equals("-"))
     return subtract(n1, n2);
    else if (op.equals("*"))
     return multiply (n1, n2);
    else
      return divide (n1, n2);
  private double add(double n1, double n2) {
    return n1 + n2;
  private double subtract(double n1, double n2) {
    return n1 - n2;
 private double multiply(double n1, double n2) {
    return n1 * n2;
 private double divide(double n1, double n2) {
    return n1 / n2;
```

}