

```
1 public class Circle {
2     public static void main(String[] args){
3         // Area
4         final double PI = 3.14159;
5         int radius = 10;
6         double area1 = PI * radius * radius;
7         System.out.println("The area of a circle with
    radius " + radius + " is " + area1);
8         radius = 20;
9         double area2 = PI * radius * radius;
10        System.out.println("The area of a circle with
    radius " + radius + " is " + area2);
11
12        // Circumference
13        radius = 10;
14        double circumference1 = PI * radius * 2;
15        System.out.println("The circumference of a
    circle with radius " + radius + " is " +
    circumference1);
16        radius = 20;
17        double circumference2 = PI * radius * 2;
18        System.out.println("The circumference of a
    circle with radius " + radius + " is " +
    circumference2);
19
20        // Division
21        double areaGrowth = (double)area2 / area1;
22        System.out.println("The growth of the area if
    the radius doubles is " + areaGrowth + " times.");
23        double circumferenceGrowth = (double)
    circumference2 / circumference1;
24        System.out.println("The growth of the
    circumference if the radius doubles is " +
    circumferenceGrowth + " times.");
25
26
27    }
28 }
29
```