

```

public class RelationalOperator {
    public static void main(String[] args) {

        int x = 10;
        int y = 4;
        int z = x * y;

        boolean equivalence = z == y;
        System.out.println("x == y is " + equivalence);

        boolean nonEquivalence = z == 45;
        System.out.println("z = 45 is " + nonEquivalence);

        boolean lessThan = z < z;
        System.out.println("z < z is " + lessThan);

        boolean greaterThan = z >= (x + y + 26);
        System.out.println("z >= (x + y + 26) is " + greaterThan);

        boolean lessOrEqualTo = x <= y;
        System.out.println("z <= (x + y + 25) is " + lessOrEqualTo );

        boolean greaterOrEqualTo = z - 23 >= x + y;
        System.out.println("z - 23 >= x + y is " + greaterOrEqualTo);

    }
}

```