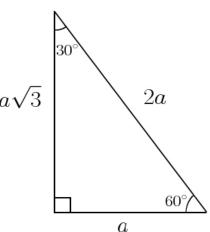
Lab – Finding the lengths of 30-60-90 triangles

10 points Name_____

The ratio of the lengths of sides in a 30-60-90 triangle are constant as:

```
if Base = a,
Side = 2a,
Height = a\sqrt{3}
```

That is, if the base of the triangle is 'a' units, then the height will be 'a' * $\sqrt{3}$, and long side will be 2 * 'a'.



Write a Java program that accepts a value for 'a' from the keyboard and calculates the height and side lengths. The main method is given below. Your program should use the main method as listed.

```
public static void main(String[] args)
{
    // You write the 'getValue()' method...
    double sideA = getValue();

    // You write the 'displaySides' method...
    displaySides(sideA);
}
```

Note you may use the built-in Math.sqrt() method to get the square root of 3.0. Refer to the Java API documentation.

Turn in your code listing on paper in class.