

## JAVA – Worksheet 2 – Using Variables

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The following is a copy of the program that you worked on during this week's lesson. Type this program again, compile it and run it on your computer to make sure that it is working properly.

```
class AreaRectangle{
    public static void main (String[] args){
        int length=5;
        int width=7;
        int area=length*width;
        System.out.println("Answer = "+area);
    }
}
```

Now create the following 3 programs and send them for correction through MS Teams.

1. Write a new program (class) called Rectangle which works out and displays the area and perimeter of a rectangle given that the length is 8cm and the width is 3cm. The output of your program should look like this:

**Area = 24 cm square**  
**Perimeter = 22 cm**

2. Write a new program (class) called VolCube which works out and displays the volume of a cube. It is up to you to decide the size of the length, width and height of the cube. The output of your program should look like this (your volume will be different):

**Volume of Cube = 70 cubic cm**

3. Write a program called Triangle which works out and displays the area of a triangle given that the base of triangle is 12 cm and the height is 9 cm. The output should look like the following:

**Area of Triangle = 54 cm square**

4. Write a program (class) called VolCylinder which works out and displays the volume of a cylinder given that it has a radius of 5 cm and a height of 9 cm. **Note** that the volume of a cylinder =  $2 \times 3.142 \times \text{radius} \times \text{height}$ . The output of your program should look like the following:

**Volume of cylinder = 282.78 cubic cm**