

# CN4001/ CD4001

## Software Development

### Topic 3: Building Blocks

#### Part 4





```
public class RectangleApp
```

```
{
```

```
    public static void main (String [ ] args)
```

```
    {
```

```
        double length, height;
```

```
        System.out.println("*** Rectangle App ***");
```

```
        length = 7.5;
```

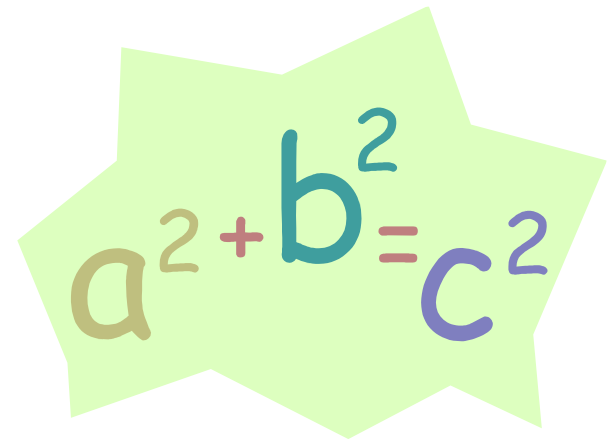
```
        height = 10;
```

```
        System.out.println("Area of rectangle = " + (length * height ));
```

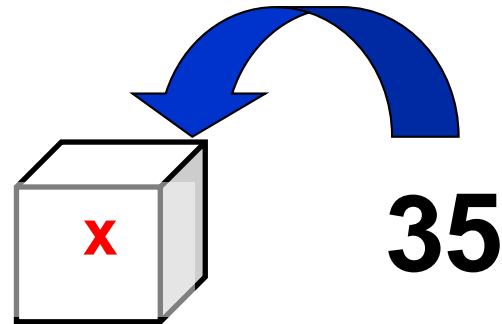
```
    }
```

```
}
```

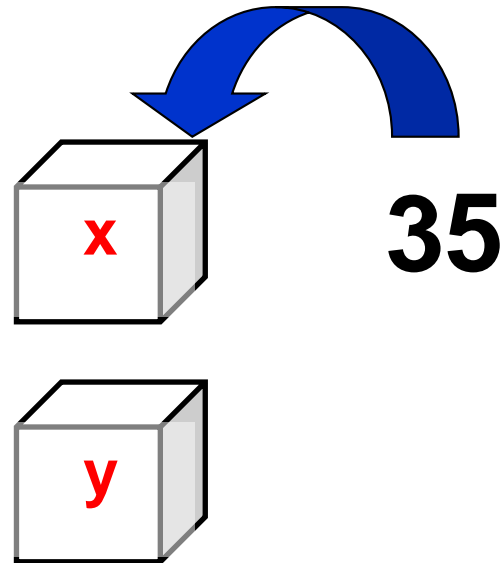
# Expressions in Java



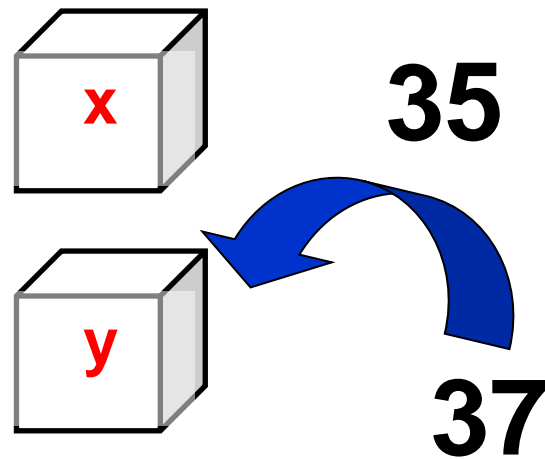
```
int x;  
x = 10 + 25;
```



```
int x, y;  
x = 10 + 25;
```



```
int x, y;  
x = 10 + 25;  
y = x + 2;
```





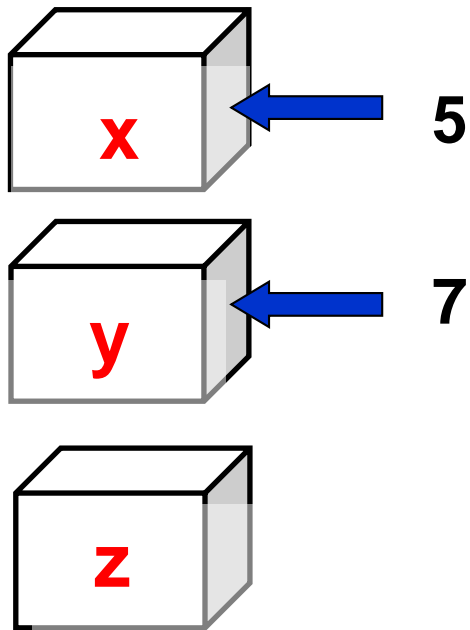
## JAVA

### *Activity*

“What is the  
final value of  
**z**?”

```
int x, y, z;  
x = 5;  
y = x + 2;  
x = 10;  
z = y * x;
```

## Computer Memory

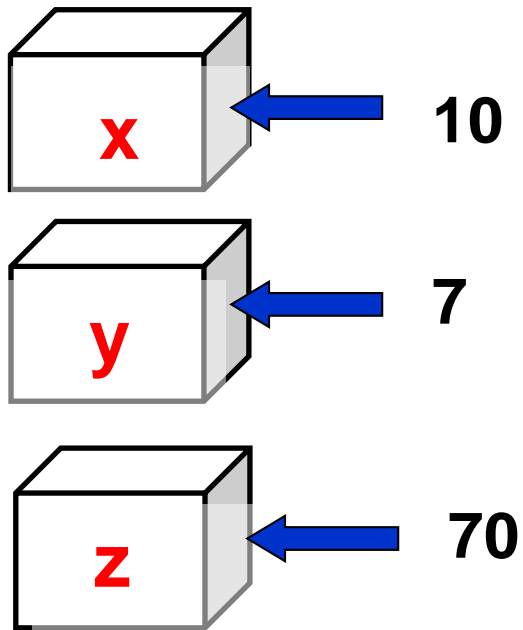


## JAVA

```
int x, y, z;  
x = 5;  
y = x + 2;  
x = 10;  
z = y * x;
```



## Computer Memory



## JAVA

```
int x, y, z;  
x = 5;  
y = x + 2;  
x = 10;  
z = y * x;
```

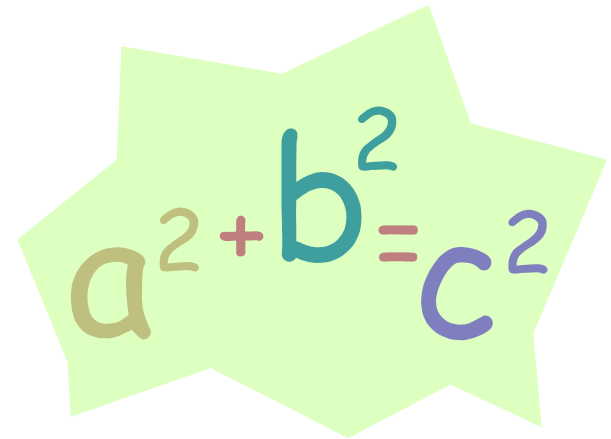
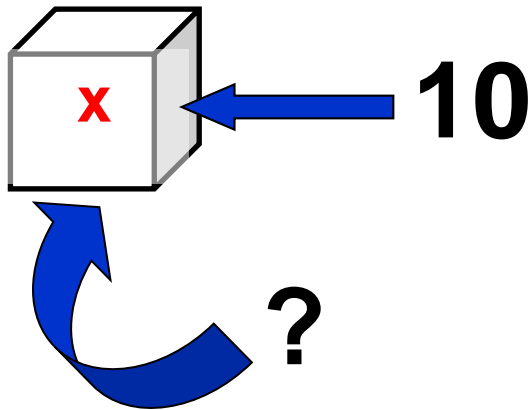


# *Activity*

**“What is the value  
of **x** here..”**

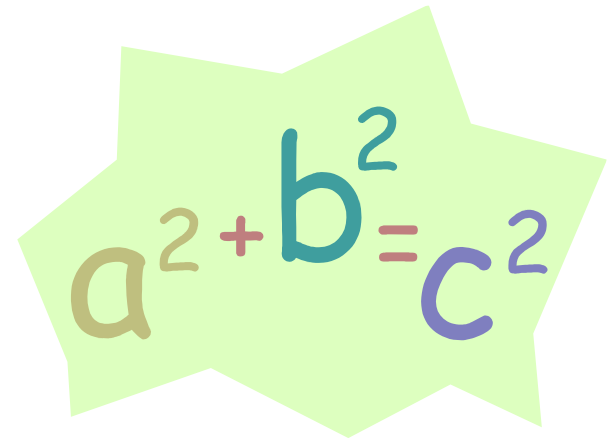
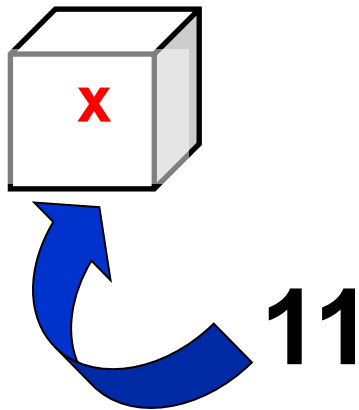
```
int x = 10;
```

```
x = x + 1;
```

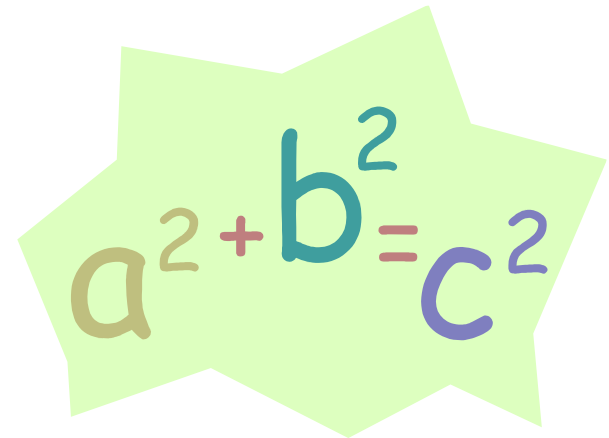
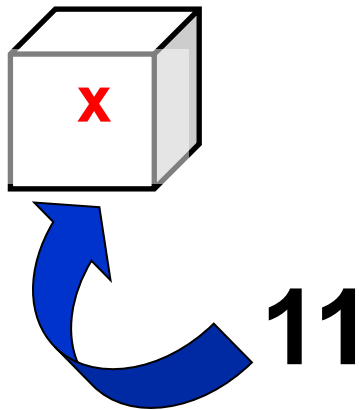


```
int x = 10;
```

```
x = x + 1;
```

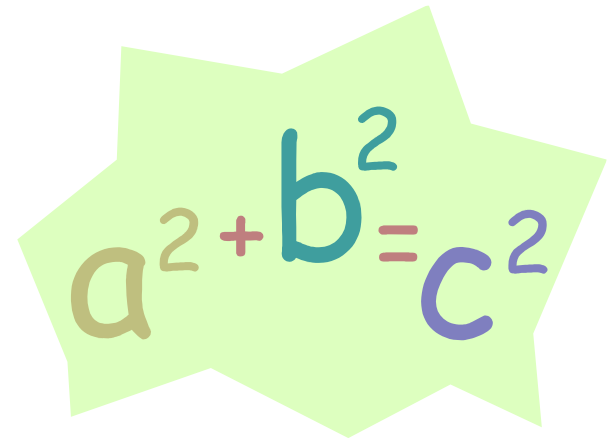
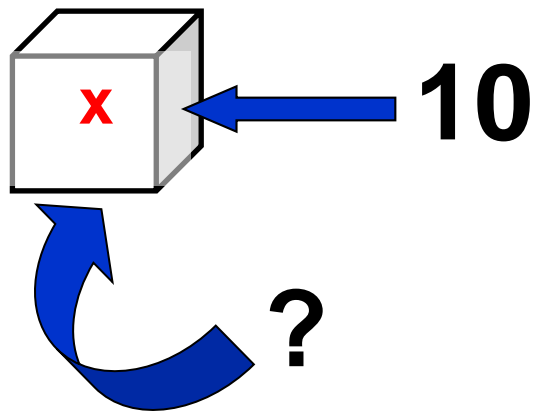


```
int x = 10;  
x++;
```



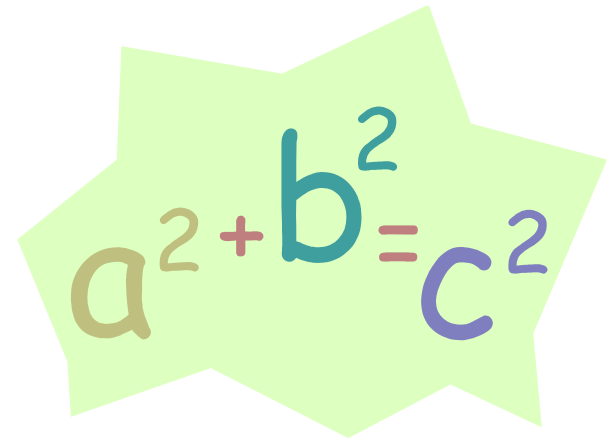
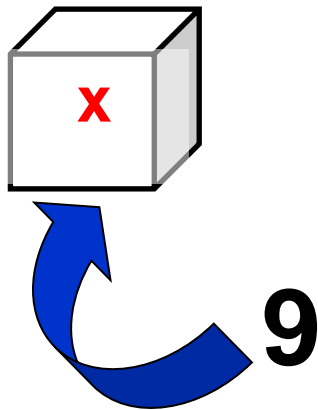
```
int x = 10;
```

```
x = x - 1;
```



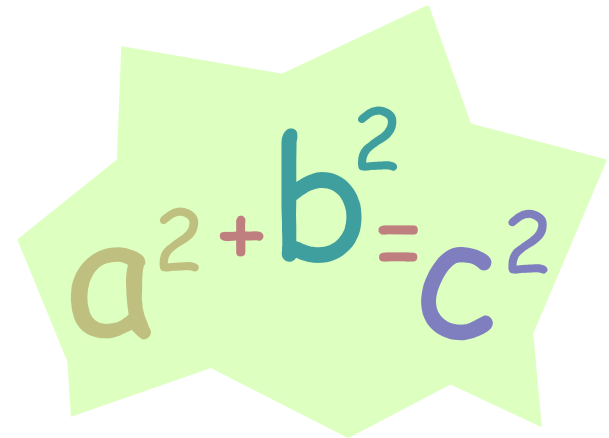
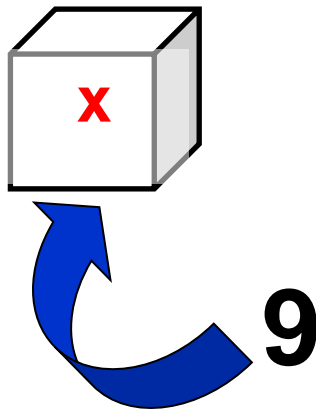
```
int x = 10;
```

```
x = x - 1;
```



```
int x = 10;
```

```
x--;
```







# *Activity*

“Declare a **variable** to hold the **area** of the rectangle and **use this** in your program”



```
public class RectangleApp
```

```
{
```

```
    public static void main (String [ ] args)
```

```
    {
```

```
        double length, height;
```

```
        System.out.println("*** Rectangle App ***");
```

```
        length = 7.5;
```

```
        height = 10;
```

```
        System.out.println("Area of rectangle = " + (length * height ));
```

```
    }
```

```
}
```



```
public class RectangleApp
```

```
{
```

```
    public static void main (String [ ] args)
```

```
    {
```

```
        double length, height, area;
```

```
        System.out.println("*** Rectangle App ***");
```

```
        length = 7.5;
```

```
        height = 10;
```

```
        System.out.println("Area of rectangle = " + (length * height ));
```

```
    }
```

```
}
```



```
public class RectangleApp
```

```
{
```

```
    public static void main (String [ ] args)
```

```
    {
```

```
        double length, height, area;
```

```
        System.out.println("*** Rectangle App ***");
```

```
        length = 7.5;
```

```
        height = 10;
```

```
        area = ?
```

```
        System.out.println("Area of rectangle = " + (length * height ));
```

```
    }
```

```
}
```



```
public class RectangleApp
```

```
{
```

```
    public static void main (String [ ] args)
```

```
    {
```

```
        double length, height, area;
```

```
        System.out.println("*** Rectangle App ***");
```

```
        length = 7.5;
```


```
        height = 10;
```

```
        area = length * height;
```

```
        System.out.println("Area of rectangle = " + (length * height ));
```

```
    }
```

```
}
```



```
public class RectangleApp
{
    public static void main (String [ ] args)
    {
        double length, height, area;

        System.out.println("*** Rectangle App ***");

        length = 7.5;
        height = 10;
        area = length * height;
        System.out.println("Area of rectangle = " + area);
    }
}
```



```
*** Rectangle App ***
```

```
Area of rectangle = 75.0
```

**RUN**



# Activity



```
1 public class MyClass
2 {
3     public static void main(String args[])
4     {
5         int x=10;
6         int y=25;
7         int z=x+y;
8
9         System.out.println("Sum of x+y = " + z);
10    }
11 }
```

**“What is printed to the screen?”**