

Assignment Operators

$$a = \cancel{15} 30$$

$$b = 20$$

$$a = b \quad ==$$

$$a += b \Rightarrow a = a + b;$$

$$a -= b \Rightarrow a = a - b;$$

$$a *= b \quad a = a * b;$$

$$a /= b \quad a = a / b;$$

$$a \mathrel{/=} b \quad a = a \mathrel{/=} b;$$

Ques Magic Trick

$$\frac{2 \times (x + a) + b}{2} - x$$

$$\frac{2x + 2a + b}{2} - x$$

$$\cancel{x} + a + \frac{b}{2} - \cancel{x}$$

$$a + b/2$$

$$a = 10 \quad b = 30$$

int n = 20;

n += a;

n *= 2;

n += 6;

n /= 2;

n -= 20;

syso(n);

n = ~~20~~

~~30~~

~~60~~

~~120~~

~~45~~

25

Ques n, Print even numbers

1 - n

DRY

↳ Don't Repeat Yourself

for(int i=1; i<=n; i++) {

if (i % 2 == 0) {

syso(i);

n = 5

i = ~~1~~
~~2~~
~~3~~
~~4~~
5 6

2

4

n = 5

2, 4, 6, 8, 10, 12, 14, ...

~~i = 2~~
~~4~~
6

```
for(int i = 2; i <= n; i += 2) {
```

```
    syso Li);
```

3

2
4

Ques

n = 4

```
* * * *  
* * * *  
* * * *  
* * * *
```

n = 4

i = ~~1~~ ~~2~~ ~~3~~ ~~4~~ 5

```
for(int a = 1; a <= n; a++) {  
    for(int i = 1; i <= n; i++) {  
        System.out.print("*");
```

* * * *

```
    }  
    syso L)
```

}

Ques $n=4$

```
*
* *
* * *
* * * *
```

$n=4$
 $n=4$

```
for(int a=1; a<=n; a++) {
    for(int i=1; i<=a; i++) { ←
        syso(*);
    }
    syso();
}
```

console

```
*
* *
* * *
|
```

Ques $n=4$

	1	2	3	4
1	1			
2	1	2		
3	1	2	3	
4	1	2	3	4