Assignment statement

• Syntax
  LHS = RHS;
  variable = expression;
• Semantics:
  Evaluate the expression on the RHS and assign it as the value for the variable on the LHS
• Example
  float wages;
  float salary;
  float bonus;
  salary = wages + bonus;
Arithmetic operators

- + : addition
- - : subtraction
- * : multiplication
- / : division

Operator precedence: */ and then + -

Can use () to override precedence
Examples

int x = 5;
int y = 6;
int z = 10;
int a;

a = x * y;
a = z/ x;
a = z - y;
a = y - z / x;
Revisit while

• More while statements
• Lets write a while statement to compute sum to first n numbers: 0, 1, 2, 3,...N

```java
int sum = 0;
int num = 0;
while (num <= N)
{
    sum = sum + num;
    num = num + 1;
}
bg.drawString(" sum to "+ N + " integers is" + sum);
```
while example

Draw n circles.

int count = 0;
while (count < n)
{
    bg.drawOval(count *50, count*50, 50 , 50);
    count ++;
}

Two dice example

- int i = 1;
- while (i <= 2)
  - {
  -   bg.setColor(Color.BLUE);
  -   bg.fillRect(50*i, 50*i, 50, 50);
  -   bg.setColor(Color.WHITE);
  -   int d = Greenfoot.getRandomNumber(6) + 1;
  -   bg.drawString(" "+d, 40*i+20*i, 70*i);
  -   i++;
  - }