

Mixed-type assignments



❖ $a = 10/3;$

❖ $n = 10.5 + 3.7;$

Unary and Binary Operators



- ❖ Unary: One operand
 - Unary + and -
 - Example: $x = -y$; $y = +x$;

- ❖ Binary: Two operands
 - Example: $x = y+x$;

Expressions with Multiple Operators



❖ Example:

➤ $x = 5 + 3 * 2 - 1;$

❖ What's the value of x?

❖ There are rules for the order of evaluation so every computer will calculate the same expression the same way every time

Order of Evaluation



- ❖ Anything in parentheses is evaluated first
 - Innermost first
 - Any with the same level are evaluated left to right

- ❖ Operator precedence
 - Unary + and -
 - Operators *, /, %
 - Binary +, -

- ❖ Binary operators evaluated left to right and unary right to left



Example

❖ Put in parentheses to indicate order of evaluation

❖ $x * y * z + a / b - c * d$

Program



- ❖ Design and write a program to calculate how much money your little sister has in nickels and pennies