How do we *compare* numerical and string data? ... with relational and equality operators!

Test	Math	Operator
"is greater than?"	>	>
"is at least?"	2	>=
"is less than?"	<	<
"is at most?"	≤	<=
"is equal to?"	=	==
"is not equal to?"	¥	!=

The equal to Operator is ==

- Two equals symbols side-by-side can be read as "is equal to?"
 - 1 == 1 evaluates to True
 - 1 == 2 evaluates to False
- **Important!** Equality is *very different* from assignment!
 - = is read as "is assigned a value of"
 - == is read as "is equal to?"

• b = x == y

"The variable **b** is **assigned the result** of *evaluating* **'is x equal to y?**"

The not equal to Operator is !=

- The ! symbol in many programming languages often means "NOT"
 - 1 != 1 evaluates to False
 - 1 != 2 evaluates to True

• b = x != y

"The variable **b** is **assigned a value** of evaluting 'is x not equal to y?"