Less Than & Less Than or Equal To

Less Than

The operator is used to check if one value is less than another value.

```
int a = 5;
int b = 7;
System.out.println(a < b);</pre>
```

TRY IT

true

What happens if you:

- Change b to 1?
- Change b to 5?
- Change b to false?

TRY IT

true

Less Than or Equal To

The <= operator is used to check if one value is less than or equal to another value.

```
int a = 5;
int b = 7;
System.out.println(a <= b;)</pre>
```

TRY IT

true

What happens if you:

- Change b to 1?
- Change b to 5?
- Change a to false and b to true ?

TRY IT

true

Equating to True

Which of the following conditions would cause the expression a <= b to equate to true?

Hint: there is more than one correct answer.

If a is less than b

If a is less than and equal to b

If a is equal to b

If a is greater than b

There are two conditions that would case $a \leftarrow b$ to be true. One is if a is less than b and the other is a is equal to b.

As long as one of those conditions is true, then a <= b will be true.