**Short-circuit Worksheet**

**1.)**

int x = 8;

int y = 4;

(x > y) && (y == 4)

Result? (circle either true or false) true / false

Short Circuit? (circle either yes or no) yes / no

**2.)**

int x = 8;

int y = 4;

(x > y) || (y == 4)

Result? true / false

Short Circuit? yes / no

**3.)**

int x = 3;

int y = 10;

(y == 3) && (y < x)

Result? true / false

Short Circuit? yes / no

**4.)**

int x = 3;

int y = 10;

(y == 3) || (y < x)

Result? true / false

Short Circuit? yes / no

\*Continued on next page\*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Result?**  [✓](https://fsymbols.com/signs/tick/)Check true or false | | **Short-Circuit?**  [✓](https://fsymbols.com/signs/tick/)Check yes or no | |  |
|  | **true** | **false** | **Yes** | **No** |  |
|  |  |  |  |  | true || true || false |
|  |  |  |  |  | false || false || false |
|  |  |  |  |  | false || false || true |
|  |  |  |  |  | true || true || true |
|  |  |  |  |  | true && true && false |
|  |  |  |  |  | false && false && false |
|  |  |  |  |  | false && false && true |
|  |  |  |  |  | true && true && true |
|  |  |  |  | [✓](https://fsymbols.com/signs/tick/) | false || false && true |
|  |  |  |  | [✓](https://fsymbols.com/signs/tick/) | true || false && true |