3.0.10 SECTION PRACTICE

**Exercise 1:** Fill in the missing operators to get the expected result (replace the underscore symbol with the appropriate operator):

1

2

3

4

console.*log*(2 \_ 3 \_ 1);      *// expected 7*

console.*log*(2 \_ 4);       *// expected 16*

console.*log*(5 \_ 1);       *// expected 5*

console.*log*(8 \_ 2 \_ 5 \_ 2); *// expected 39*

SOLUTION:

**console.log(2 \* 3 + 1);   // expected 7**

**console.log(2 \*\* 4); // expected 16 (Exponentiation: 2^4)**

**console.log(5 / 1); // expected 5**

**console.log(8 \* 2 + 5 \* 2); // expected 39**

**Comparision operators**

**Exercise 2:** Fill in the missing comparison operators in that such a way that all expressions result in true (replace the underscore symbol with the appropriate operator):

1

2

3

4

5

console.*log*(4 \* 5 \_ 20);

console.*log*(6 \* 5 \_ "30");

console.*log*(-17 \_ 0);

console.*log*(25 \_ 1);

console.*log*(2 + 2 \* 2 \_ 4);

SOLUTION:

**console.log(4 \* 5 == 20);**

**console.log(6 \* 5 === "30"); // false in strict equality, but for true, use ==**

**console.log(-17 < 0);**

**console.log(25 > 1);**

**console.log(2 + 2 \* 2 != 4); // 2 + (2 \* 2) = 6, so != 4**

**Logical operators**

**Exercise 3:** Fill in the missing comparison operators in that such a way that all expressions result in true (replace the underscore symbol with the appropriate operator):

1

2

3

4

console.*log*(true \_ false);

console.*log*(false \_ false);

console.*log*(false \_ false \_ true);

console.*log*(true \_ false \_ false && true);

ANSWER:

**console.log(true || false); // true**

**console.log(false == false); // true**

**console.log(false || false || true); // true**

**console.log(true && false || false && true); // true**

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