

JavaScript Exercises – Basics

Data Types and Operators

1. Write the expressions in JavaScript syntax for the following accounting equations (analyze the operation from the input and output) – use google if necessary:

Duration: 1.5 hours

Cash flow ratio

Sample Input: cash: 1000, current liabilities: 500

Sample Output: 2

Net income

Sample Input: revenues: 1000, expenses: 500

Sample Output: 500

Total assets

Sample Input: liabilities: 1000, equity: 500

Sample Output: 1500

Net income (using profit margin and sales)
Sample Input: profit: 1000, sales: 500

Sample Output: 500000

Average

Sample Input: numbers: 7, 9, 2

Sample Output: 6

Discount

Sample Input: price: 150, discount: 30%

Sample Output: 105

Age limit (older than 18 and less than 30)

Sample Input: 20 Sample Output: true

Exponential

Sample Input: number 1: 2, number 2: 3

Sample Output: 8

Remainder

Sample Input: number 1: 10, number 2: 4

Sample Output: 2



- 2. Find the output for these expressions and justify the output according to JavaScript interpretation:
 - typeof(100)
 - typeof(73.9)
 - typeof(NaN)
 - typeof("Water")
 - typeof(false)
 - typeof(9 != 11)
 - "Orang" + "e"
 - "Orange" "s"
 - "4" + "8"
 - "4" "8"
 - "name" + 3
 - "name" 3
 - 82 * "word"
 - 1 + "hello"
 - "hello" + 1
 - 1 + true
 - "hello" + true
 - typeof (Infinity)
 - 1 == '1'
 - 1 === '1'

Strings Duration: 15 minutes

- 1. Write the code to make this string "Welcome to Orange" outputted in the following forms using string methods:
 - Output: WELCOME TO ORANGE
 - Output: TO
 - Output: Hello from Orange
 - Output: welcome to orange
 - Output: 17
 - Output: Welcome to "Orange"
 - Output: Welcome to Orange Jordan
- 2. Write the code that replaces all occurrences of the first letter of a string with '*'

Sample Input: cactus Sample Output: ca*tus