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Using Scratchpad or the Console (or a mix of both), evaluate all of the given expressions and provide the answer in the spot given. Do not copy and paste from Word to the console. Test yourself – how many can you do without using a computer?

|  |  |  |
| --- | --- | --- |
| # | **EXPRESSION** | **ANSWER** |
| 1 | true && true | True |
| 2 | true || true | True |
| 3 | false && true | False |
| 4 | true && false | False |
| 5 | false && false | False |
| 6 | !false && !true | False |
| 7 | !(true && true) | False |
| 8 | false || !true | False |
| 9 | false || false | false |
| 10 | true || false | True |
| 11 | (false || true && !false || !true) | true |
| 12 | false || true | true |
| 13 | true && (false || true) | true |
| 14 | (false || (true || (true && false) && false)) | True |
| 15 | (true && (false || true && false && (true || false) && true)) | False |
| 16 | (true && (false || true && !false && !(true || false) && !true)) | false |
| **Complete the remainder of the statements in the order provided.** | | |
| 17 | var age; | undefined |
| 18 | age = 5; | 5 |
| 19 | age < 20 | true |
| 20 | age == 20 | False |
| 21 | age != 10 | true |
| 22 | age >= 1 && age <= 10 | true |
| 23 | var dogAge; | undefined |
| 24 | dogAge = 7 | 7 |
| 25 | age + 2 < dogAge / 10 | false |
| 26 | (age + 2) < (dogAge / 10) | false |
| 27 | age >= 1 && age <= 10 || 5 > dogAge | true |
| 28 | age >= 1 || age <= 10 && !(age > dogAge) | true |
| 29 | (false || (3 > 10) && (3 <=4) || (3 \* 2 – 3 < 4) || true) | true |
| 30 | x = true, y = false, z = true | true |
| 31 | x || false | true |
| 32 | x && false | false |
| 33 | x || y | true |
| 34 | !x || !y | true |
| 35 | x || y || z | true |
| 36 | x && z | true |
| 37 | x && y && z | false |
| 38 | var letter; | undefined |
| 39 | letter = “a”; |  |
| 40 | letter < “b” |  |
| 41 | letter == “A” |  |
| 42 | “c” >= letter |  |
| **Replace <enter your name> with your actual name. Ex) “Lynn”** | | |
| 43 | var myName; |  |
| 44 | myName = “<enter your name>” |  |
| 45 | var theirName; |  |
| 46 | theirName = “smith” |  |
| 47 | myName > theirName |  |
| 48 | myName < theirName |  |
| 49 | myName < theirName && !(myName + theirName > theirName) |  |
| 50 | theirName == myName || theirName == (yourName = (myName < theirName) ? myName : theirName) && myName == yourName; |  |