

1. Resolva as operações:

- $10 + 15 = 25$ (number)
- $"10" + 2 = 12$ (number)
- $"10" * 2 = 20$ (number)
- $"10" / 3 = 3,33$ (number)
- $"10" \% 3 = 1$ (number)
- $10 + \text{true} = 11$ number
- $10 == "10" = \text{true}$ (boolean)
- $10 === "10" = \text{false}$ (boolean)
- $10 < 11 = \text{true}$ (boolean)
- $10 > 12 = \text{false}$ (boolean)
- $10 <= 10.1 = \text{true}$ (boolean)
- $10 > 9.99 = \text{true}$ (boolean)
- $10 != \text{"dez"} = \text{true}$ (boolean)
- $10 + \text{true} = 11$ (number)
- $\text{"dez"} + \text{true} = \text{deztrue}$
- $10 + \text{false} = 10$ (number)
- $10 * \text{false} = 0$ (number)
- $\text{true} + \text{true} = 2$ (number)
- $10++ =$
- $10-- =$
- $1 \& 1 = 1$ (number)
- $1 \& 0 = 0$ (number)
- $0 \& 0 = 0$ (number)
- $1 \& 0 = 0$ (number)
- $0 / 1 = 0$ (number)
- $5 + 5 == 10 = \text{true}$ (boolean)
- $"5" + "5" == 10 = \text{false}$ (boolean)
- $"5" * 2 > 9 = \text{true}$ (boolean)
- $(10 + 10) * 2 = 40$ (number)
- $10 + 10 * 2 = 30$ (number)

2. Responda as perguntas de acordo com as variáveis. `var branco = "preto"; var preto = "cinza"; var cinza = "branco"; var carro = "preto"; var valor = 30000; var prestacao = 750;`

- a) `branco == "branco"` - **false**
- b) `branco == cinza` - **false**
- c) `carro === branco` - **true**
- d) `var cavalo = carro == "preto" ? "cinza" : "marron";`
- e) Quantas prestações são necessárias para pagar o valor do carro com uma entrada de 3.000? Demonstre a operação. - **$(\text{valor} - 3000) / \text{prestacao} = 36$**
- f) Somando as variáveis de cores é formada uma string de quantos caracteres? **15**