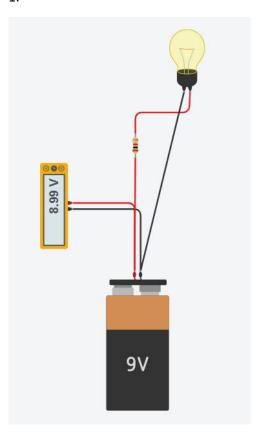
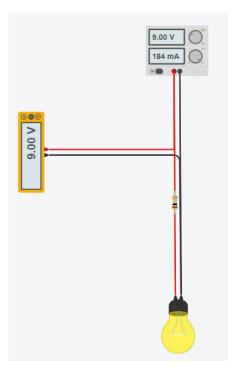
1.

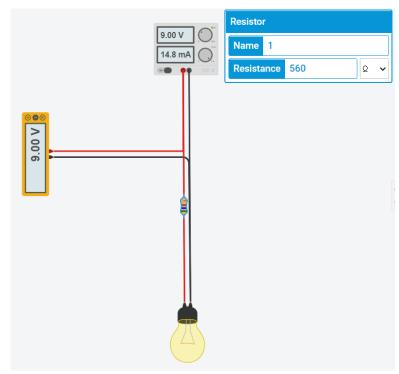


- a) 8.99 V
- b) Valoarea masurata este mai mica decat cea nominala, deoarece bateria are rezistenta interna

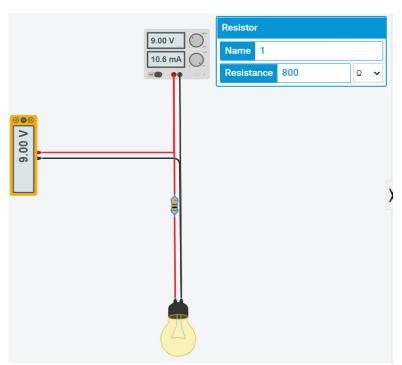
c)



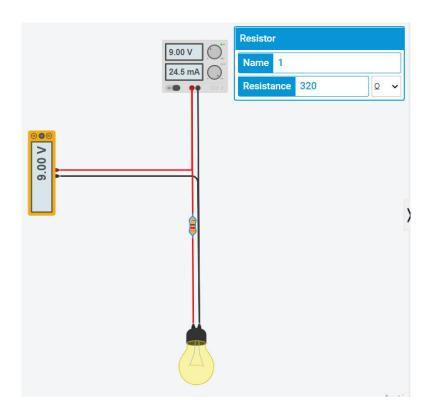
Se observa ca tensiunea este identica



Initial: R=560 ohmi si I=14.8 mA

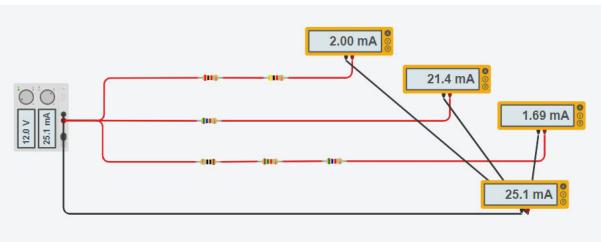


R=800 ohmi si I=10.6 mA -> Daca R creste, I scade



R=320 ohmi si I=24.5 mA -> Daca R scade, I creste



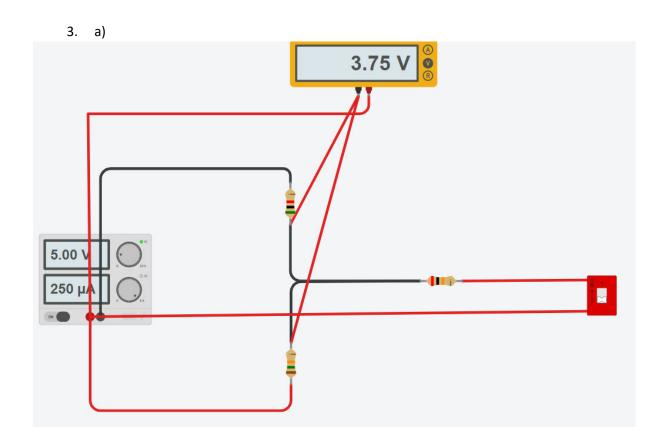


a) I1 = 2.00 mA

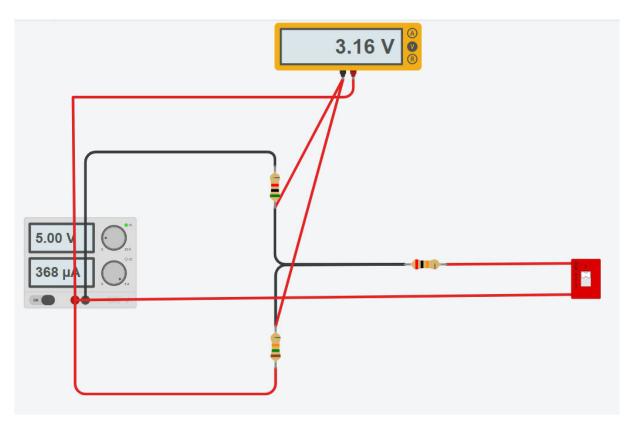
12 = 21.4 mA

13 = 1.69 mA

b) I = I1 + I2 + I3 = 2 + 21.4 + 1.69 = 25.09 mA, aproximativ 25.1 mA



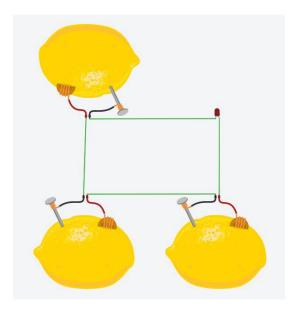
V = 3.75 VFormula standard a divizorului rezistiv: V = E \* (R2/(R1+R2)) = 5 \* (15/20) = 5 \* 0.75 = 3.75 V



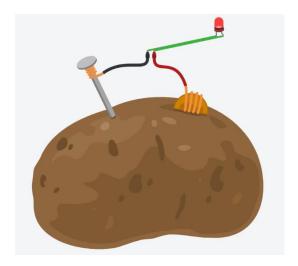
b)

$$\begin{split} R_{Th} &= E_{Th} / \ I_{sc} = 4 Kohmi \\ E_{Th} &= E * R2/(R1 + R2) = 5 * 15/20 = 5 * 0.75 = 3.75 \ V \\ I_{sc} &= E / R1 \ = 10 \ mA \\ U &= E_{Th} * Rs/(Rs + R_{Th}) = 3.75 * 20 / (20 + 3.75) = 3.157 \ V = 3.16 \ V \end{split}$$

4.



Este nevoie de 3 lamai legate in serie



Este nevoie de un cartof