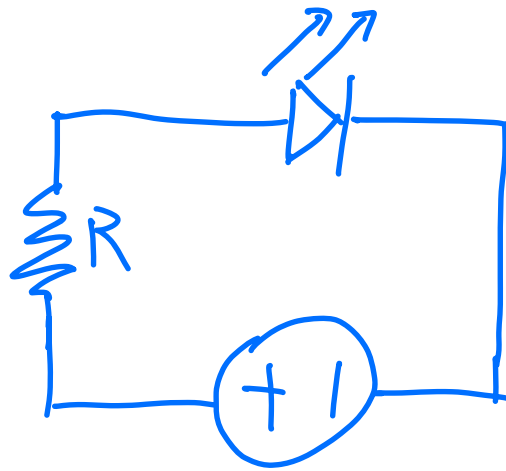


a.



b. using KVL,

$$12V = IR + 2.1V$$

$$R = \frac{9.9V}{15mA} = \boxed{660\Omega}$$

c.  $680\Omega$  resistor.

$$d. \underline{I} = \frac{V}{R} = \frac{9.9V}{680\Omega} = 14.56mA$$