

## CIRCUITS WORKSHEET

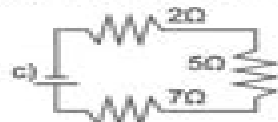
1. Determine the equivalent (total) resistance for each of the following circuits below.



$$\begin{aligned}\frac{1}{R_{eq}} &= \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} \\ &= \frac{1}{7} + \frac{1}{5} + \frac{1}{2} = \frac{59}{70} \\ R_{eq} &= \frac{70}{59} = 1.2\Omega\end{aligned}$$

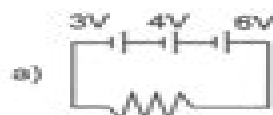


$$\begin{aligned}R_{eq} &= R_1 + R_2 \\ &= 2 + 5 \\ R_{eq} &= 7\Omega\end{aligned}$$



$$\begin{aligned}R_{eq} &= R_1 + R_2 + R_3 \\ &= 2 + 5 + 7 \\ R_{eq} &= 14\Omega\end{aligned}$$

2. Determine the total voltage (electric potential) for each of the following circuits below.

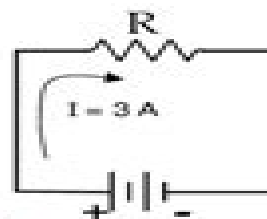


13V

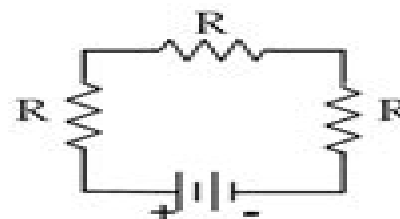


12 V

3. In a series circuit there is just one path so the charge flow is constant everywhere (charge is not lost or gained). Circuit B was made by adding 2 more identical resistors in series to circuit A.



Circuit A



Circuit B

- a) How is the charge flow out of the battery (and back into it) affected by adding more bulbs in series? **Charge flow or current decreases as total resistance increases**
- b) If the resistors were light bulbs, how do you expect the brightness of the bulbs to be affected by adding more bulbs in series?  
**Brightness gets dimmer since less current or charge passing through each bulb AND smaller voltage drop across each bulb (the voltage gain at the battery is now distributed among 3 bulbs as opposed to just one).**
- c) How is the brightness in the 2 circuits related to charge flow or current?  
**The brightness is directly related to current since the less charge flowing through each bulb each second, the less energy/charge is lost and converted to light**
- d) How does the current in circuit B compare to circuit A?  
**Circuit B has three times the total resistance (same V) so current supplied by battery drops three fold. Circuit B would have only 1 A of current.**

# Circuits And Circuit Elements Physics Answers

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