

Activity - Practice with Complex Circuits

$$V = IR$$

Part I

In the circuits below, the voltage of the battery is 12 V and each resistor is 2 Ω. For each circuit:

- Describe the circuit and any assumptions you make. Which resistors are in series? Which are in parallel?
- Calculate the current through each resistor and the voltage across each resistor.

Total: $8 + 2 = 10$

$$A = \frac{2 \Omega}{4.67} (12)$$

5.13

$$2 + 2 = 4 \Omega \text{ (series)} \quad \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{3}{2} = \frac{2}{3} \text{ (parallel)}$$

$$4 + \frac{2}{3} = 4.67 \Omega = \text{total}$$

Series = $2 + 2 + 2 + 2 = 8 \Omega$

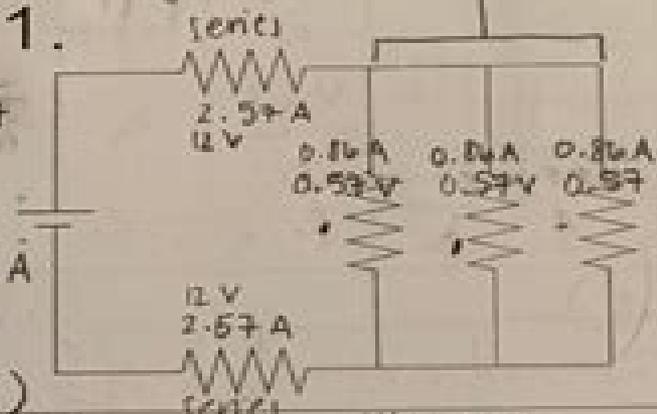
Parallel = $\frac{1}{2} = 2 \Omega$

$V = IR \rightarrow I = \frac{V}{R} = \frac{12}{10} = 1.2 \text{ A}$

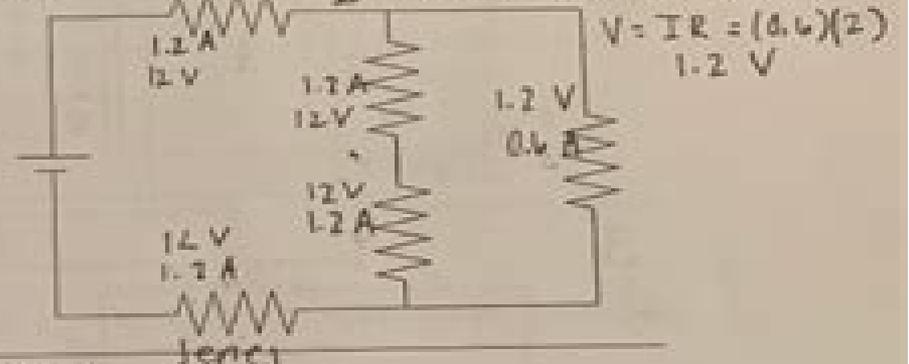
$$V = IR$$

$$I = \frac{V}{R} = \frac{12}{4.67}$$

$$I = 2.57$$



2. $\frac{1.2}{2} = 0.6 \text{ A for parallel resistors}$



$$\frac{2.57 \text{ A}}{3} = 0.86 \text{ A}$$

$$V = IR$$

$$V = (0.86) \left(\frac{2}{3}\right)$$

$$V = 0.57 \text{ V}$$

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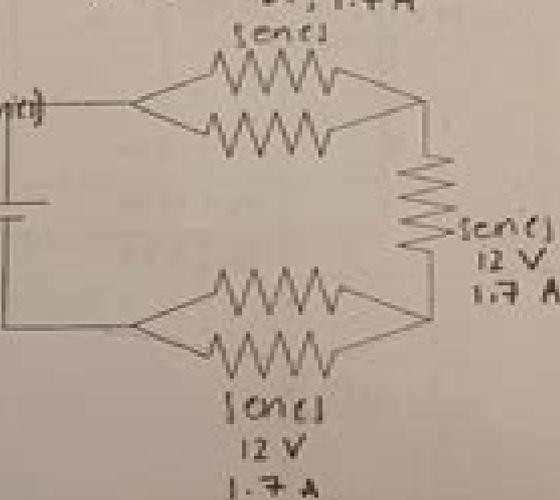
$$\text{Total } R = 6 + 1 = 7 \Omega$$

$$2 + 2 + 2 = 6 \Omega \text{ (series)}$$

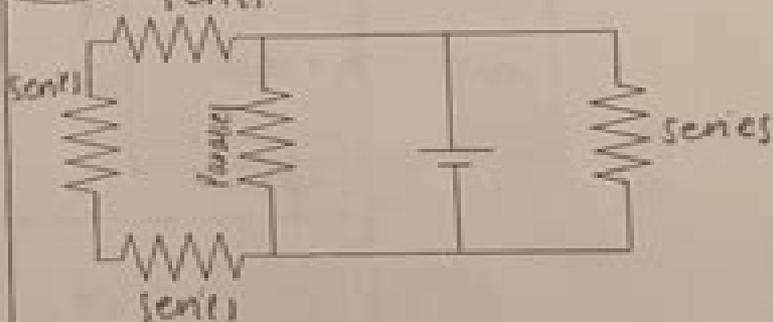
$$\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1 \Omega \text{ (parallel)}$$

$$V = IR$$

$$I = \frac{V}{R} = \frac{12}{7} = 1.7 \text{ A}$$



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