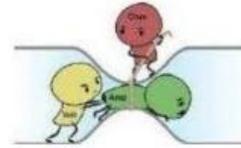
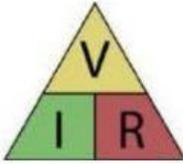
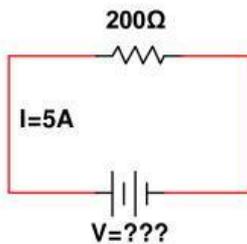


Ohm's Law

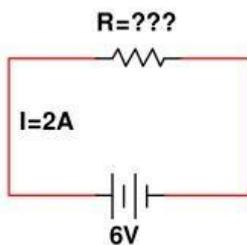


Choose the best answer.

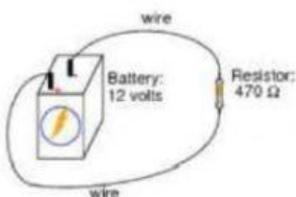
1. What is the formula to find current?
A. $I = V \times R$ B. $I = R/V$ C. $I = V/R$
2. What is the formula to find voltage?
A. $V = I/R$ B. $V = R/I$ C. $V = I \times R$
3. What is the formula to find resistance?
A. $R = V/I$ B. $R = I/V$ C. $R = I \times V$
4. If current $I = 5A$ and resistance $R = 200\Omega$, find the voltage V .



- A. $V = 120$ volts B. $V = 1,000$ volts C. $V = 100$ volts D. $V = 40$ volts
5. If voltage $V = 6$ volts and current $I = 2A$, find the resistance R .

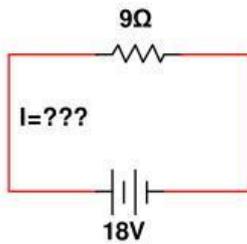


- A. $R = 3 \Omega$ B. $R = 6 \Omega$ C. $R = 75 \Omega$ D. $R = 1/3 \Omega$
6. If voltage $V = 12$ volts and resistance $R = 470\Omega$, find the current I .



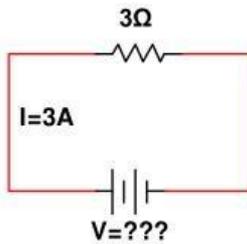
- A. $I = 3 A$ B. $I = 0.12 A$ C. $I = 0.026 A$ D. $I = 0.5 A$

7. If an 18-volt battery supplies a 9Ω resistor, find the current I .



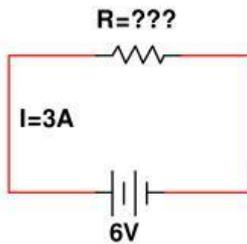
- A. $I = 162\text{ A}$ B. $I = 1/2\text{ A}$ C. $I = 3\text{ A}$ D. $I = 2\text{ A}$

8. Find the voltage V of a battery that supplies 3A current to a resistor $R = 3\Omega$.



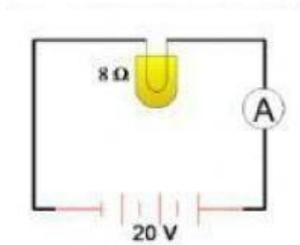
- A. $V = 1\text{ volt}$ B. $V = 9\text{ volts}$ C. $V = 10\text{ volts}$ D. $V = 6\text{ volts}$

9. If voltage $V = 6\text{ volts}$ and current $I = 3\text{A}$, find the resistance R .



- A. $R = 2\Omega$ B. $R = 3\Omega$ C. $R = 0.5\Omega$ D. $R = 18\Omega$

10. How much current does the ammeter show in the circuit below?



- A. $I = 160\text{ A}$ B. $I = 25\text{ A}$ C. $I = 4\text{ A}$ D. $I = 2.5\text{ A}$