



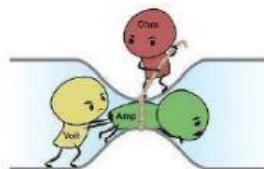
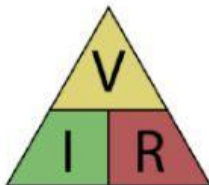
Assumption College Ubonratchathani
English for Science 3

Name:.....

Class:.....

No.

Ohm's Law



A. Choose the best answer.

1. What is the formula to find current?

A. $I = V \times R$

B. $I = R/V$

C. $I = R \times V$

D. $I = V/R$

2. What is the formula to find voltage?

A. $V = I \times R$

B. $V = R/I$

C. $V = I \times R$

D. $V = I/R$

3. What is the formula to find resistance?

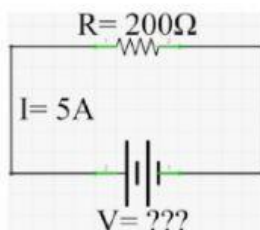
A. $R = V/I$

B. $R = I/V$

C. $R = I \times V$

D. $R = V \times I$

4. If current $I = 5 \text{ A}$ and resistance $R = 200 \Omega$, find the voltage V .



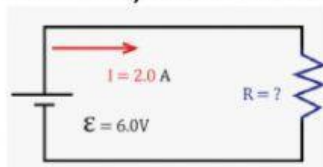
A. $V = 120 \text{ volts}$

B. $V = 1000 \text{ volts}$

C. $V = 100 \text{ volts}$

D. $V = 40 \text{ volts}$

5. If voltage $V = 6 \text{ volts}$ and current $I = 2 \text{ A}$, find the resistance R .



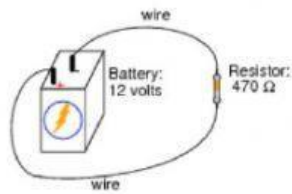
A. $R = 3 \Omega$

B. $R = 6 \Omega$

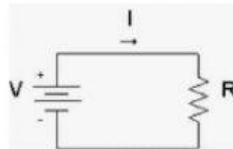
C. $R = 75 \Omega$

D. $R = 1/3 \Omega$

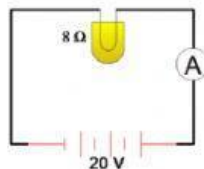
6. If voltage $V = 12$ volts and resistance $R = 470\ \Omega$, find the current I .



- A. $I = 3\text{ A}$ B. $I = 0.12\text{ A}$ C. $I = 0.26\text{ A}$ D. $I = 0.5\text{ A}$
7. If an 18-volt battery supplies a $9\ \Omega$ 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 3 A current to a resistor $R = 3\ \Omega$.
- A. $V = 1\text{ volts}$ B. $V = 9\text{ volts}$ C. $V = 10\text{ volts}$ D. $V = 6\text{ volts}$
9. If voltage $V = 6$ volts and current $I = 3\text{ A}$, find the resistance.



- A. $R = 2\ \Omega$ B. $R = 3\ \Omega$ C. $R = 0.5\ \Omega$ D. $R = 18\ \Omega$
10. In the circuit below how much current does the ammeter show?



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