Name: _____ **Date:** _____ **Period:** _____

Ohm's Law Quiz

Today you will be taking a quiz over Ohm's Law. Use your formula and do not forget to put your units

(Voltage = V, Current = A, Resistance = Ohm's)

1. If a toaster produces 15 ohms of resistance in a 150-volt circuit, what is the amount of current in the circuit?

V = _____ **I =** _____ **R =** _____

2. A cd player uses a standard 3 V battery. How much resistance is in the circuit if it uses a current of 0.05 A?

V = _____ **I =** _____ **R =** _____

3. How much voltage would be necessary to generate 7 amps of current in a circuit that has 20 ohms of resistance?

V = _____ **I =** _____ **R =** _____

4. A circuit contains a 1.5 volt battery and a bulb with a resistance of 6 ohms. Calculate the current.

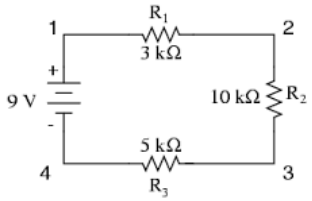
V = _____ **I =** _____ **R =** _____

5. What resistance does a hair dryer have that is plugged into a 120 Volt circuit if it has a current of 4 amps going through it?

V = _____ **I =** _____ **R =** _____

6. _____ **stays the same in a series circuit, and** _____ **stays the same in a parallel circuit.**

7. Calculate the R_t = ___ I_t = ___ I1 = ___ I2 = ___ I3 = ___ V1 = _____ V2 = _____ V3 = _____ for the following circuit:



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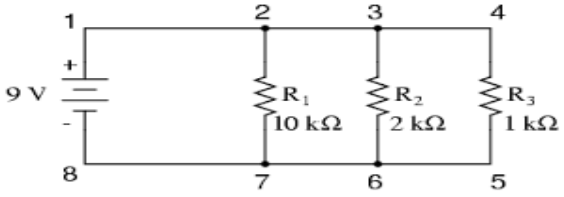

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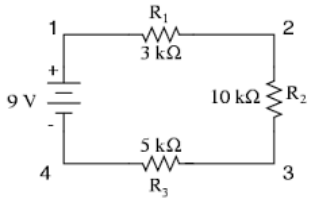

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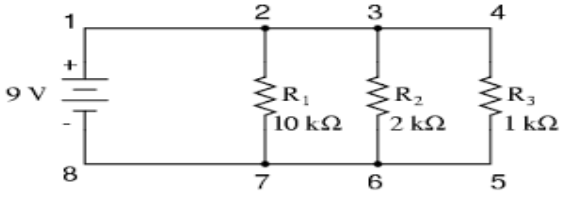

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