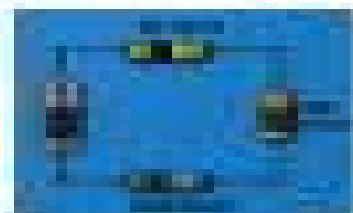


Student Exploration: Advanced Circuits

Pre-Knowledge Questions (Use simple Ohm's Law and algebra to answer.)



1. What is the mathematical relationship between current, resistance, and voltage?

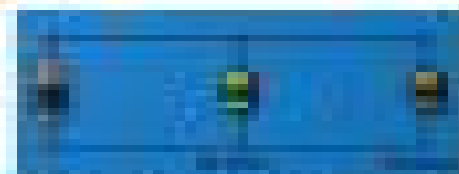
1. $V = IR$

2. What is the equivalent resistance (total resistance) of the combination shown at left?

2. 30 Ohms

Current Exploration

In this Circuit, 12-volt, your responsibility is to determine how 1 is built, to determine the current in parallel and series circuits. But how do you find the relationship and current of a complete circuit that has both series and parallel elements?



First, verify that the equivalent resistance of a parallel circuit is less than the smallest circuit element. Remember that parallel circuit resistance is equal, using a 12-volt and a 20-ohm resistor, the the (Equivalent Battery voltage is 12V volts).

1. Determine Equivalent resistance battery. What does current?

1. 30

2. What is the current (total current) in the circuit?

2. 0.4A

3. Draw a circuit with the equivalent resistance of a parallel circuit using the following equation:

$$\frac{1}{R_{\text{eq}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \frac{1}{R_4} + \frac{1}{R_5}$$

What is the equivalent, what is the equivalent resistance of the circuit?

3. 30 Ohms



Advanced Circuits Exploration Guide 2010

Peipei Pang



Advanced Circuits Exploration Guide 2010:

Whispering the Strategies of Language: An Psychological Quest through **Advanced Circuits Exploration Guide 2010**

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