


Explore Learning Gizmo Answer Key Advanced Circuits

Activity A: Solving complex circuits	Get the Gizmo ready: <ul style="list-style-type: none"> Click Clear to remove all components from the CIRCUIT BOARD. 	
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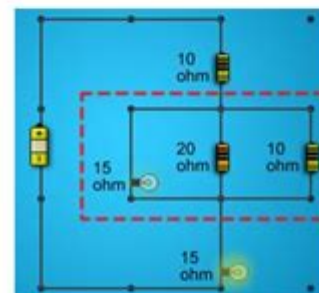
Introduction: Solving a complex circuit may look difficult, but all you have to do is be patient and solve one part of the circuit at a time. Use these two rules to find the resistance of a part of a circuit:

- For components connected in series, the equivalent resistance is the sum of the resistance of each component: $R_t = R_1 + R_2 + \dots + R_n$.
- For resistors connected in parallel, use the equivalent resistance equation:

$$\frac{1}{R_{Total}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots + \frac{1}{R_n}$$

Goal: Determine the resistance and current in a circuit with parallel and series elements.

- Calculate:** Use the Gizmo to create the circuit shown at right. Next, find the equivalent resistance of the outlined parallel component of the circuit. Show your work. (Hint: The lowest common denominator of the three fractions is 60.)



Equivalent resistance of parallel component: < >

- Interpret:** Now that you found the resistance of the parallel part of the circuit, what do you think you will do next? < >
- Calculate:** Add up the resistance of each part of the circuit to find the equivalent resistance of the whole circuit. What do you get? < >
- Check:** Remove the battery from the circuit. Connect the two parts of the **Ohmmeter** to the ends of the circuit, where the battery was attached. What is the resistance? < >

(Activity A continued on next page)

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