

5. **Apply:** Remove the ohmmeter and reattach the battery. Set the **Selected battery voltage** to 10 volts. What do you expect the total current to be through this circuit?

Check your answer by placing the **Ammeter** on the circuit near the battery.

6. **Analyze:** You can use Ohm's law ( $I=V/R$ ) to calculate the current and voltage through each component of the circuit. Recall that the current is the same through each series component but gets split up in the parallel section of the circuit.

- A. What is the voltage across the first 10-ohm resistor?

- B. What is the voltage across the middle, parallel section of the circuit?

- C. What is the current in each branch of the parallel section?

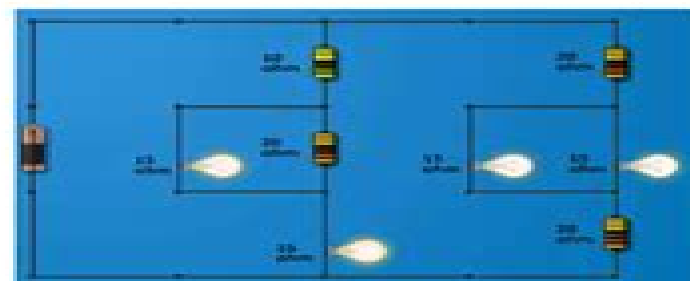
Light bulb:  20-ohm resistor:  10-ohm resistor:

- D. What is the voltage across the last 15-ohm light bulb?

Use the **Voltmeter** and the **Ammeter** to check your answers.

7. **Practice:** Click **Clear**. Use what you have learned to find the equivalent resistance of the circuit shown at right. Show your work in the space below. Use the Gizmo to check your answers.

$$\begin{aligned} 1/R_t &= 1/15R = 15 + 15 & 1/R_t &= 1/15 + 1/15 \\ 1/R_t &= 7/60R = 30 & 1/R_t &= 2/15 \\ R_t &= 8.6 & R_t &= 7.5 \\ R_t &= 8.6 + 10 + 15 & R_t &= 7.5 + 20 + 20 \\ R_t &= 33.6 & R_t &= 47.5 \\ \\ 1/R_t &= 1/33.6 + 1/47.5 \\ 1/R_t &= 47.5/1596 + 33.6/1596 \\ R_t &= 1596/81.1 \\ R_t &= 19.67\text{ohms} \end{aligned}$$



Equivalent resistance:

# Explore Learning Gizmo Answer Key Advanced Circuits

**David Kirk**



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