

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?

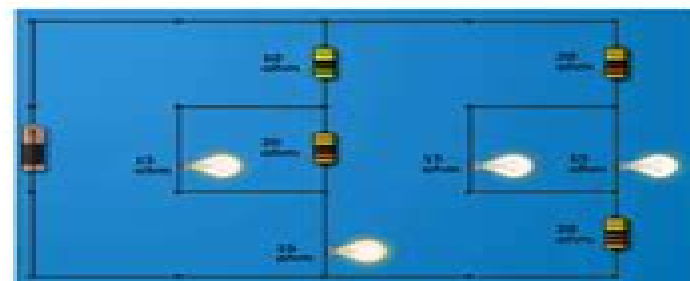
Light bulb: 20-ohm resistor: 10-ohm resistor:

- 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

J Rink



Explore Learning Gizmo Answer Key Advanced Circuits:

Explore Learning Gizmo Answer Key Advanced Circuits Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Explore Learning Gizmo Answer Key Advanced Circuits**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://staging.conocer.cide.edu/About/detail/fetch.php/Fundamentals%20Of%20Fluid%20Mechanics%20Munson%206th%20Edition.pdf>

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