

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? **.338 A.**

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? **3.38 V**

B. What is the voltage across the middle, parallel section of the circuit? **1.56 V**

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

Light bulb: **0.104**

20-ohm resistor: **0.078**

10-ohm resistor: **0.156**

D. What is the voltage across the last 15-ohm light bulb? **5.07 V**

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.

$$1/R_{eq} = 1/15 + 1/15 \quad 1/R_{eq} = 1/15 + 1/15$$

$$1/R_{eq} = 7/60 \Omega^{-1} = 30 \quad 1/R_{eq} = 2/15$$

$$R_{eq} = 8.6 \quad R_{eq} = 7.5$$

$$R_{eq} = 8.6 + 10 + 15$$

$$R_{eq} = 7.5 + 20 + 20$$

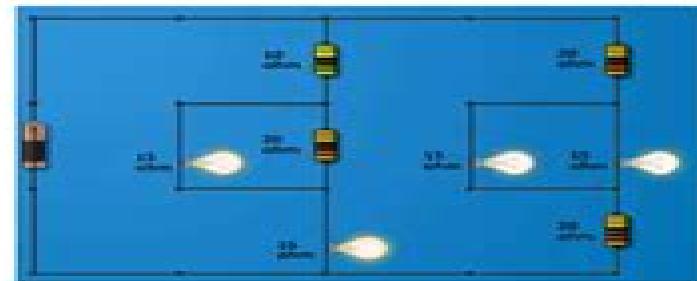
$$R_{eq} = 33.6 \quad R_{eq} = 47.5$$

$$1/R_{eq} = 1/33.6 + 1/47.5$$

$$1/R_{eq} = 47.5/1596 + 33.6/1596$$

$$R_{eq} = 1596/81.1$$

$$R_{eq} = 19.67 \Omega$$



Equivalent resistance:

19.67 ohms

Explore Learning Gizmo Answer Key Advanced Circuits

**Sam Goundar,K.Reddy Madhavi,J.
Avanija**

Explore Learning Gizmo Answer Key Advanced Circuits:

Quantum Computing Sam Goundar,K.Reddy Madhavi,J. Avanija,2025-12-29 The aim of this book is to provide a comprehensive exploration of the recent developments in the field of quantum computing. The book introduces readers to the history, current state, and future prospects of quantum computing. It will provide a clear understanding of the challenges it faces in becoming a practical and transformative technology. *Quantum Computing: The Past, the Present, and the Future* provides coverage of key areas such as introduction to quantum computers, quantum bits (Qubits), quantum information theory, quantum algorithms, and complexity. Implementation methods of quantum computing, quantum-resistant cryptographic algorithms, quantum machine learning, and applications of quantum computing. The book begins by introducing the mathematical foundations and quantum information theory to the readers and includes various techniques such as error detection and error correction. Next, a detailed description of a secure quantum channel-based communication using photons is also presented. The authors also elaborate on various techniques being pursued in realizing qubits and quantum computers, including quantum dots, superconducting circuits, electron spins, and quantum wires that enable the physical realization of quantum computers. The book covers how quantum research deals with developing quantum-resistant cryptographic algorithms to secure communication channels and important information. The book closes with the research development and prospects of quantum computing, including the growth of quantum solutions to computationally exponential business problems. This book presents quantum computing to a broad audience including academics, students, computer scientists, engineers, and mathematicians. It will assist experts and aspiring quantum computing scholars to learn new quantum computing skills and to improve their expertise and applications of the technology.

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https://www.equityfwd.org/public/browse/HomePages/Gehl_V270_Manual.pdf

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