

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?

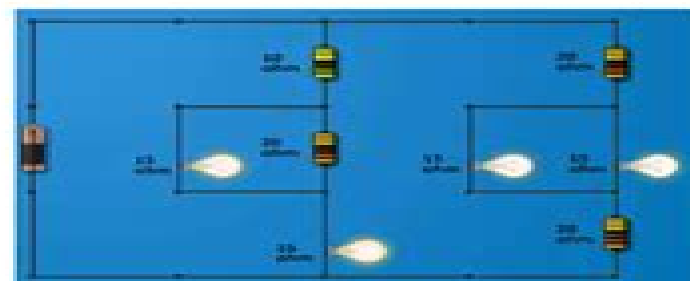
Light bulb: 20-ohm resistor: 10-ohm resistor:

- 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

**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

Explore Learning Gizmo Answer Key Advanced Circuits: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Explore Learning Gizmo Answer Key Advanced Circuits : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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

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