

# Conceptual Physics PRACTICE PAGE

## Chapter 23 Electric Current

### Circuit Resistance

Figure what the resistances are, then show their values in the blanks to the left of each lamp.

All circuits below have the same lamp A with resistance of  $6\ \Omega$  and the same 12-volt battery with negligible resistance. The unknown resistances of lamps B through L are such that the current in lamp A remains 1 ampere. Fill in the blanks.

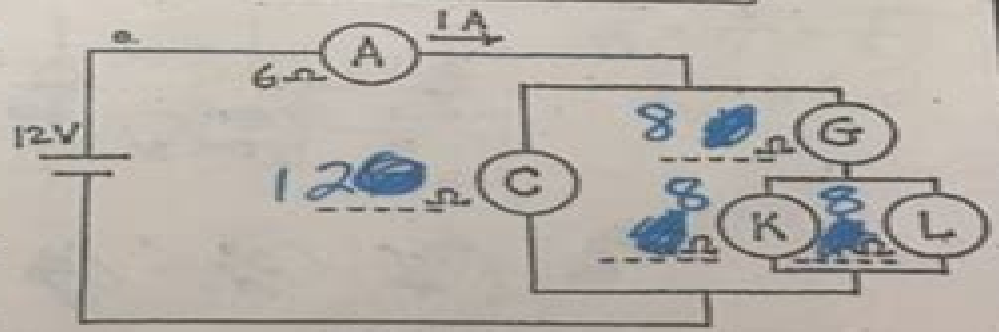


Circuit a: How much current flows through the battery? 1 A.

Circuit b: Assume lamps C and D are identical. Current through lamp D is 0.5 A.

Circuit c: Identical lamps E and F replace lamp D. Current through lamp C is 0.5 A.

Circuit d: Lamps G and H replace lamps E and F, and the resistance of lamp G is twice that of lamp H. Current through lamp H is 0.5 A.



Handy rule: For a pair of resistors in parallel:  
Equivalent resistance =  $\frac{\text{product of resistances}}{\text{sum of resistances}}$

Circuit e: Identical lamps K and L replace lamp H. Current through lamp L is 0.25 A.

The equivalent resistance of a circuit is the value of a single resistor that will replace all the resistors of the circuit to produce the same load on the battery. How do the equivalent resistances of the circuits a through e compare?

All are the same

# Conceptual Physics Practice Page Circuit Resistance Answers

**SJ Ball**



## Conceptual Physics Practice Page Circuit Resistance Answers:

*Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed* Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics      Oswaal ICSE Question Bank Class 10 Physics For Exam 2024-25 (Only Title Back Update & Feedback pages) Oswaal Editorial Board, 2024-08-06 Description of the product What makes these Question Banks truly exceptional 100% Updated with Latest Syllabus Questions Typologies We have got you covered with the latest and 100% updated curriculum Crisp Revision with Topic wise Revision Notes Smart Mind Maps Study smart not hard Extensive Practice with 700 Questions Self Assessment Papers To give you 700 chances to become a champ Concept Clarity with 500 Concepts Concept Videos For you to learn the cool way with videos and mind blowing concepts 100% Exam Readiness with Expert Answering Tips Suggestions for Students For you to be on the cutting edge of the coolest educational trends      **Experimental Physics** Walter F. Smith, 2020-03-18 This textbook provides the knowledge and skills needed for thorough understanding of the most important methods and ways of thinking in experimental physics The reader learns to design assemble and debug apparatus to use it to take meaningful data and to think carefully about the story told by the data Key Features Efficiently helps students grow into independent experimentalists through a combination of structured yet thought provoking and challenging exercises student designed experiments and guided but open ended exploration Provides solid coverage of fundamental background information explained clearly for undergraduates such as ground loops optical alignment techniques scientific communication and data acquisition using LabVIEW Python or Arduino Features carefully designed lab experiences to teach fundamentals including analog electronics and low noise measurements digital electronics microcontrollers FPGAs computer interfacing optics vacuum techniques and particle detection methods Offers a broad range of advanced experiments for each major area of physics from condensed matter to particle physics Also provides clear guidance for student development of projects not included here Provides a detailed Instructor's Manual for every lab so that the instructor can confidently teach labs outside their own research area      *Power*, 1925      *Sif Physics Nl Tb 2e*, 2007      Engineering News, 1910      **Laboratory Practice**, 1978      Electronics, 1954      *Engineering News-record*, 1910      *Engineering News and American Contract Journal*, 1910      Proceedings of the IRE, Institute of Radio Engineers, 1951      **Proceedings of the IRE.**, 1951      **Industrial Arts & Vocational Education**, 1959      *Energy*

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