

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.

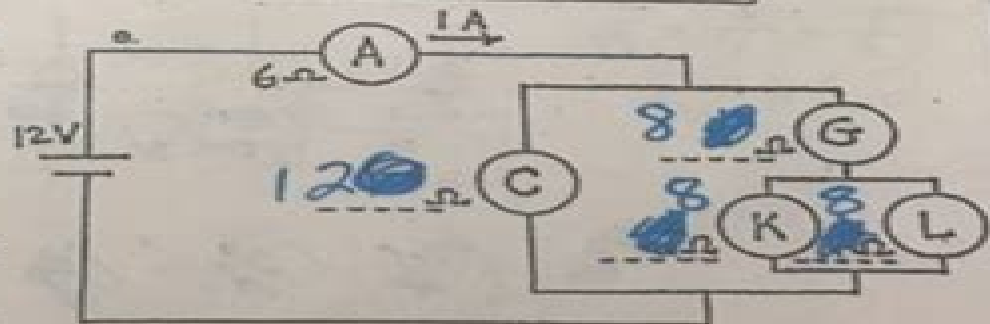


Circuit a: How much current flows through the battery? 1 A.

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 35 Electric Current Answers

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