

## Physics Classroom Electric Current Answer Key

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To answer all these questions, use the mathematical equation for current:  $I = Q / t$  a. A current of one ampere is a flow of charge at the rate of 1 coulomb per second.

~~Physics Tutorial: Electric Current - The Physics Classroom~~

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Electric current is equal to the number of Coulombs of charge which move past a point on a circuit per unit of time. Electric current provides a measure of how fast charge moves between two points on a circuit. The electric current diminishes in value as charge progresses to locations further and further from the + terminal of the battery.

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The flow of charge through electric circuits is discussed in detail. The variables which cause and hinder the rate of charge flow are explained and the mathematical application of electrical principles to series, parallel and combination circuits is presented.

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The DC Circuit Builder equips the learner with a virtual electronic circuit board. Add resistors, light bulbs, wires and ammeters to build a circuit, Explore Ohm's law. Compare and contrast series, parallel and combination circuits. Use a voltmeter to measure voltage drops. Do all this without the fear of being electrocuted (as long as you don't use your computing device in the bath tub).

### ~~Physics Simulation: DC Circuit Builder~~

The Physics Classroom serves students, teachers and classrooms by providing classroom-ready resources that utilize an easy-to-understand language that makes learning interactive and multi-dimensional. Written by teachers for teachers and students, The Physics Classroom provides a wealth of resources that meets the varied needs of both students and teachers.

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12. Determine the current through the 5- resistor (from B to C).  $I_{BC} = V_{BC} / R_{BC} = (30.0 \text{ V}) / (5.00 \text{ } ) = 6.00 \text{ A}$  The current in a branch can be determined by dividing the voltage drop across the branch by the resistance of the resistor in the branch. 13. Determine the current through the 7- resistor (from B to C).

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### ~~Physics Classroom Electric Circuits Answer Key~~

Current is calculate as the number of charges that pass a point on a circuit per time. Current is calculated as the distance that a charge moves per unit of time. Current is calculated as the amount of energy a charge loses per unit of time Current is calculated as the amount of resistance a charge encounters in a given time. Question Group 4

### ~~Electric Current Questions - Physics~~

The SI unit of electric current is the ampere (symbol A), equal to one coulomb per second. Because current is easier to measure than charge, the physical standards have been established using current as the base quantity, so the coulomb is defined as an ampere-second (A.s).

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Physics Classroom Electric Current Answer To answer all these questions, use the mathematical equation for current:  $I = Q / t$  a. A current

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This physics classroom answers electric potential difference, as one of ... Lesson 4 Current Electricity The Physics Classroom MOP ... Answer Key To The Physics Classroom 2009 - fullexams.com ... Answer: FALSE The electric potential difference is the same in each branch of a parallel circuit. 14.

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