

Finding heat dissipated in $4\ \Omega$ resistor

$$H = I^2 R t$$

$$H = \left(\frac{V}{R}\right)^2 R t$$

$$H = \frac{V^2}{R^2} R t$$

$$H = \frac{V^2}{R} t$$

Putting values

$$H = \frac{6^2}{4} \times 5$$

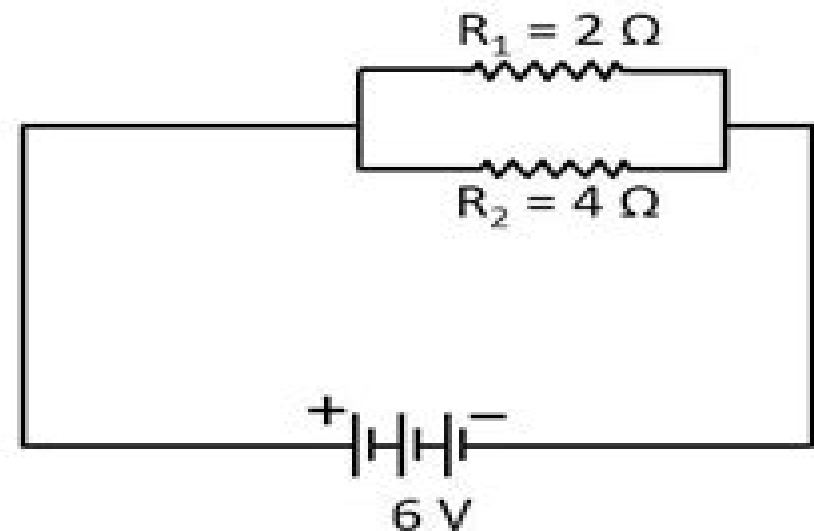
$$H = \frac{36}{4} \times 5$$

$$H = 9 \times 5$$

By Ohm's law,

$$V = I R$$

$$I = \frac{V}{R}$$



Math Questions For Electricians

B Lingard



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Understand Electrical and Electronics Maths Owen Bishop, 2013-10-22 *Understand Electrical and Electronics Maths* covers elementary maths and the aspects of electronics The book discusses basic maths including quotients algebraic fractions logarithms types of equations and balancing of equations The text also describes the main features and functions of graphs and the solutions to simpler types of electronics problems The book then tackles the applications of polar coordinates in electronics limits differentiation and integration and the applications of maths of rates of change in electronics The activities of an electronic circuit techniques of mathematical modeling systematic techniques for dealing with the more difficult sets of simultaneous equations alternating currents and voltages and analysis of waveforms are also considered The book provides answers to exercises for each chapter Students taking electronics and courses related to electrical engineering at levels up to and including higher national certificate and diploma will find the book useful

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Mathematical Aspects of Electrical Network Analysis Herbert S. Wilf, Frank Harary, 1971

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