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seek, this is the outline for you. It has enough exposition to function as a tutorial in its limited subject matter. It is a good companion to "Schaum's Outline of Basic Electricity, 2nd Edition", since it goes more into detail about the mathematics of the subjects covered in that outline.

## **Schaum's Outline of Basic Mathematics for Electricity and ...**

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Mathematics For  
Let's look at the most

basic electrical

formula:  $V=IR$

Fundamentally, what  
the “=” sign means is  
that whatever is on the  
left of the sign is  
equivalent to whatever  
is on the right.

### **Electrician Math: Life-Saving Skills**

UNIT1 Electrician's  
Math and . Basic  
Electrical Formulas.

INTRODUCTION TO  
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**FORMULAS.** In order to construct a building that will last into the future, a strong foundation is a prerequisite.

## **INTRODUCTION TO UNIT**

### **1—ELECTRICIAN'S MATH AND BASIC ...**

1. Understand basic mathematics.
2. Identify electrical terms and symbols
- 3.

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Understand electrical theory. 4. Understand the electrical principles of Direct Current (DC).

5. Understand the electrical principles of Alternating Current (AC). 6. Understand the requirements and configurations of electrical circuits. 7.

## **Chapter 1 Basic Electrical Theory and Mathematics**

For help with math calculations on

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electrician license  
exams, the following  
two books written by

Ray Holder (Master  
Electrician and  
Certified Electrical  
Trade Instructor) focus  
on math and show you,  
in a step-by-step way,  
how to solve electrician  
math problems:

Electricians Practice  
Calculation Exams;  
Practical Calculations  
for Electricians

**electrician math**

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and Plumbing

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the modern technical

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**Chapter 2 Basic  
Math, Electrical, and  
Plumbing Operations**

Mathematics for  
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and Computing

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2003/6/8 — page ii —

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FRANCISCO

**TLFeBOOK - Sharif**

The Mathematics  
behind Electricity. By  
Stephen Bismarck. I  
intend to explore some  
mathematical concepts  
behind the production  
and consumption of  
electricity and how it  
makes it travels from  
the generators to your



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### Mathematics For

### Electricity and

### Electronics

house. I have been interested in electricity for a while now, my father worked for Consolidated Edison (Con-Ed) for over 20 years and ...

## **The Mathematics behind Electricity**

BASIC MATHEMATICS

FOR ELECTRICITY The

Learning Objectives of

this Program are:

math/objectives.doc

01/23/2002 1. To

review Powers of

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Numbers as needed for the Electrical Troubleshooting Course (#) and the Electricity Course. (#)  
2. To review Basic Algebra as needed for the Electricity Course. (#, ##)  
3. To review Basic Trigonometry as needed for the Electricity Course. (#, ##)  
4.

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**mebaschool.org**

Schaum's Outline of Basic Electricity covers the fundamentals of electricity and electric circuits. Written as a complement to vocational and technical courses, the book reviews digital and computer technology and the more advanced level of expertise required of technicians in these fields. ... He was also adjunct professor in

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The math theory is  
developed in slow,  
simple stages and is  
directly applied to the  
solution of real  
problems.

Working in minute units, 2 hours=120 minutes. Hence 25 minutes is  $\frac{25}{120}$ ths of 2 hours. By cancelling,  $\frac{25}{120} = \frac{5}{24}$  Expressing  $\frac{5}{24}$  as a decimal fraction gives 0.2083. Multiplying by 100 to convert the decimal fraction to a percentage gives:  $0.2083 \times 100 = 20.83\%$ . Thus 25 minutes is 21% of 2

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hours, correct to the  
nearest 1%.

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Bertrand B. Singer,  
Harry Forster, Mitchel  
E. Schultz.

Glencoe/McGraw-Hill,  
2000. 897 pages,  
hardcover. ISBN  
0-02-805022-3.

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Amazon.com. Book  
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### **for Electricity and Electronics**

Math Focus features provide students with a quick review of the basic math skills they need to understand the topic at hand. Math topics covered are exponents, scientific notation, metric and electrical prefixes, order of operations, algebraic equations, adding fractions, ratios and proportions, and square roots.

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