

Ohms Triangle



Three Formulae For Ohm's Law

Voltage (V) = Current (I) $\times$ Resistance (R)

Current (I) = Voltage (V) $\div$ Resistance (R)

Resistance (R) = Voltage (V) $\div$ Current (I)

Complete the following table by using Ohm's Law to find the missing values.

Example: Fan

Given $V = 6\text{v}$, $I = 1.6\text{A}$

Find R

$R = V \div I = 6 \div 1.6 = 3.75\Omega$

Appliance	Voltage (V)	Current (I)	Resistance [R]
Fan	6v	1.6 A	
Plotter	22 v	0.36 A	
Mic		0.8 A	42 Ω
Computer	115v		0.873 Ω
Range		3.6A	2 Ω
Dryer	23v		8.4 Ω
Microwave		12.4A	15 Ω
Spot Light	24v	4.5V	
Projector		15A	3 Ω
Pump	120v		11.4 Ω