

### Ohms Triangle



Three Formulae For Ohm's Law

- Voltage (V) = Current (I) × Resistance (R)
- Current (I) = Voltage (V) ÷ Resistance (R)
- Resistance (R) = Voltage (V) ÷ 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	42Ω
Computer	115v		0.873Ω
Range		3.6A	2Ω
Dryer	23v		8.4Ω
Microwave		12.4A	15Ω
Spot Light	24v	4.5V	
Projector		15A	3Ω
Pump	120v		11.4Ω