



If we read the voltage values on voltmeter as  $V_1$ ,  $V_2$ ,  $V_3$  and current on ammeter as  $I_1$ ,  $I_2$  and  $I_3$ , there is a relation between them as shown below;

$$\frac{V_1}{I_1} = \frac{V_2}{I_2} = \frac{V_3}{I_3} = \text{constant} = R$$

$$R = \frac{V}{I} \text{ or } V = I \cdot R$$