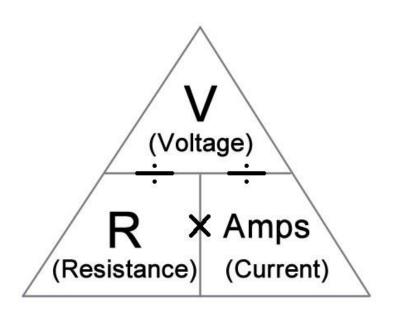


## CALCULATING RESISTOR VALUE TO DRIVE AN LED



## $R = V \div A$

E.G.: 12V with an LED with a typical current of 25mA (=0.025 Amps) and a working voltage of 2V, to work out the resistor value as:

= 
$$(12 - 2) \div 0.025$$
  
=  $10 \div 0.025$   
= **400 Ohms**  
(closest is 470 $\Omega$ )

Or 2x 3.3V 30mA LED's from 12V:

= 
$$(12 - (2x3.3)) \div 0.03$$
  
=  $(12 - 6.6) \div 0.03$   
=  $5.4 \div 0.03$   
=  $180 \text{ Ohms}$   
(closest is  $220 \Omega$ )