
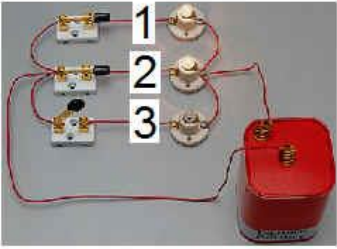


CHAPTER 10

ELECTRICITY

1) Look at the pictures and answer the questions:

	<p>a) Name the electrical elements in this circuit.</p> <p>b) Is this a parallel or a series circuit? Why?</p> <p>c) Draw the circuit diagram.</p>
	<p>d) If we open switch 1, what happens to light bulb 1?</p> <p>e) Now only switch 2 is closed. All the electrons flow through light bulb 2.</p> <p>Will light bulb 2 shine more? Why?</p> <p>Is there a risk of light bulb 2 blowing? Why?</p> <p>f) Is this a parallel or a series circuit? Why?</p>

2) Match the magnitude name with its magnitude symbol, unit name and unit symbol:

MAGNITUDE NAME	MAGNITUDE SYMBOL	UNIT NAME	UNIT SYMBOL
Current (the flow of electrons)	V	ohm	A
Tension (the force that pushes the electrons)	R	amp	V
Resistance	I	volt	Ω

3) Look at the table and fill in the gaps:

	Current Intensity (I)	Tension (also called Voltage) (V)	Resistance (R)
a)	?	12 V	4 Ω
b)	4 A	?	5 Ω
c)	2 A	36 V	?
d)	?	8 V	8 Ω
e)	1.5 A	?	10 Ω
f)	4.6 A	9.2 V	?

4) A circuit has a battery that provides a tension of 12 V. The circuit has a light bulb with a resistance of 6 Ω

What is the current intensity in the circuit?

5) A circuit has a battery that provides a tension of 12 V. The current intensity in the circuit is 2 A.

What is the resistance in the circuit?