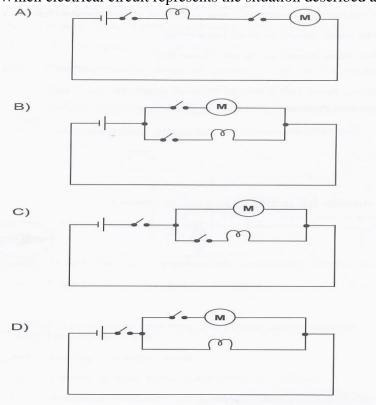
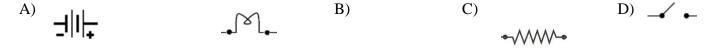
Circuit worksheet 2

- 1. When a grocery store check-out clerk is ready to serve customers:
 - he must press a switch to turn on a light indicating that the cash is open
 - he can start the conveyer belt motor, if necessary, by using another switch
- he can start the conveyer belt motor only if the light is on to indicate that his cash is open

Which electrical circuit represents the situation described above?

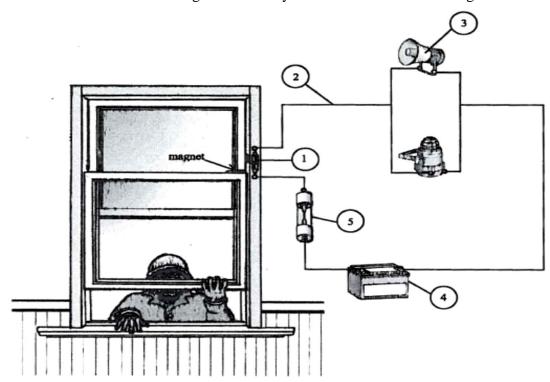


2. Which of the components depicted by the symbols below is used to control the electron flow in an electrical circuit?



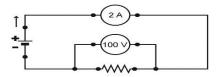
3. Using the answers from number 2, which symbol represents the power supply?

4. The electrical circuit of a magnetic alarm system is illustrated in the diagram below.

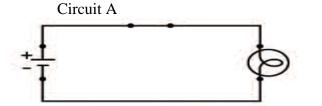


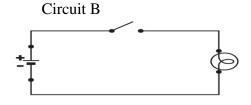
What is the electrical function of component 3 in this electrical circuit?

- A) Power supply
- B) Control
- C) Conduction
- D) Transformation
- 5. Using the answers from number 4, what is the electrical function of number 2?
- 6. Calculate the resistance value in the circuit below.



- 7. Look at the electrical circuit.
- a) Determine if each circuit is an open or closed one.
- b) Determine if the light bulb will be on for each circuit.





8.	and a flamps. and give intension	the lab, you have been given the following materials: a battery, three lamps, two switched a fuse. You must assemble a circuit containing the battery, one switch and the three haps. The lamps are to be connected in parallel, and they must all turn on at the same timed give off the same intensity of light. The fuse must be installed so that the total current ensity does not exceed 2.4 A. Draw the diagram for this electrical circuit.	
	b) W	hat would happen if the current in the circuit in question a) were to exceed 2.4 A?	
9.	Fuses and breakers perform the same function in electrical circuits. What is this function called?		
10.	0. When a lamp is switched off, is the electrical circuit to the light bulb open or closed? Explain your answer.		
11.		you go to a friend's house and ring the doorbell, an electrical circuit is activated, e doorbell rings. When you press the button for the doorbell, you close an electrical circuit. Which function does the push button perform in the circuit?	
	b)	The doorbell is covered in plastic. Why? Which function does this small round plastic cover perform?	