

Name: \_\_\_\_\_

Period: \_\_\_\_\_

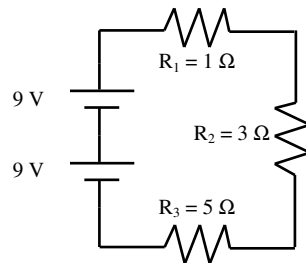
**HW Unit 9:9—Magnets**  
**Mr. Murray, IPC**  
**cstephenmurray.com**

**A-day: Due Wed., 4/11 (Assig: 4/9)**  
**B-day: Due Thurs., 4/12(Assig: 4/10)**

1. A north pole is next to a north pole, will they attract or repel?
2. A south pole is next to a north pole, will they attract or repel?
3. What is the difference between a generator and a motor?
  
4. What is an electromagnet?
  
5. What are the ways to increase the strength of an electromagnet?

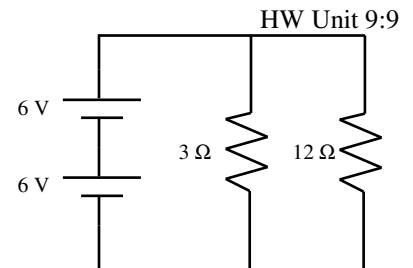
6. Will a magnet be attracted to any piece of metal?
7. Why or why not?
8. What causes magnetism?
9. What is a “core”?
10. True or false: a motor cannot act as a generator?
11. Why or why not?
12. How do you separate a N pole from its S pole?

13. Parallel or series?
14. Find  $V_T$ .
15. Find  $R_T$ .
16. Using the above, find  $I_T$ .



17. Find the total power used in the circuit.
18. Find the voltage used by the 3 Ω resistor.
  
19. If they were light bulbs, which is brightest?

20. Parallel or series?
21. Which resistor will have more current in it?
22. Find  $V_T$ .
23. Find the current flowing thru *both* resistors.



24. Find the total current ( $I_T$ ).
  25. Find the total power of the circuit.
-