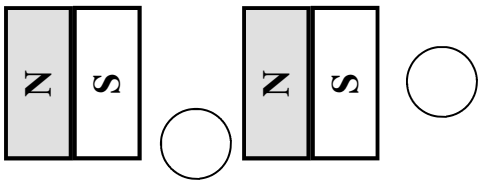
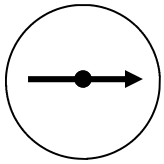
A-day: Due Fri., May 9 (Assigned Wed, May 7)
B-day: Due Mon., May 12 (Assigned Thurs., May 8)

2008 Magnetism 2

1. What variable do we use for magnetic field?

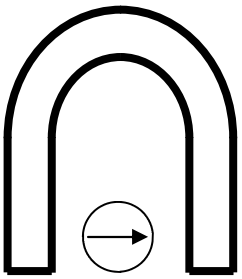
2. A. Draw the magnetic field between the magnets.
   B. Fill in the compasses.





3. A. Label N and S on the compass.
   B. Label red and black on the compass.

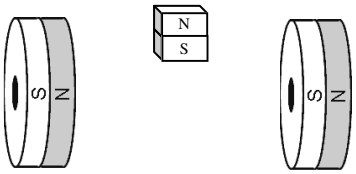
4. Label N and S on the horseshoe magnet.



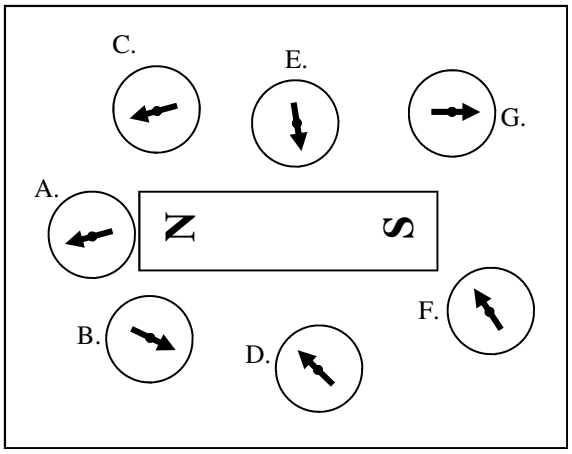
5. What symbol do we use for into the page?

6. What symbol do we use for out of the page?

7. A. Draw B between the donut magnets.
   B. What will happen to the small magnet between the magnets?

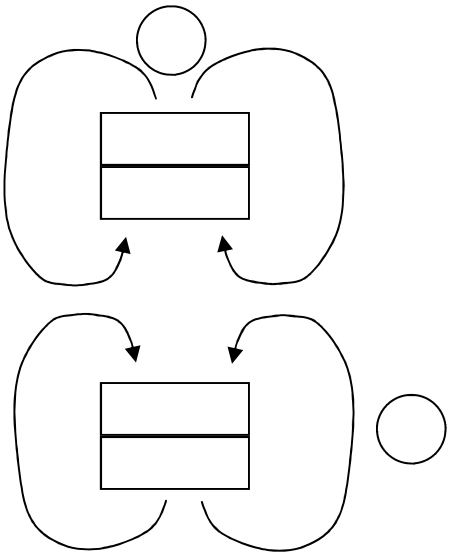


8. Which of the compasses below are correct?

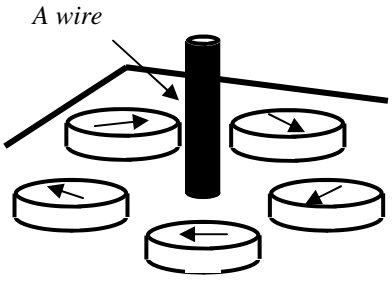


9. A. Label N and S on each of the magnets.

   B. Fill in the compasses.



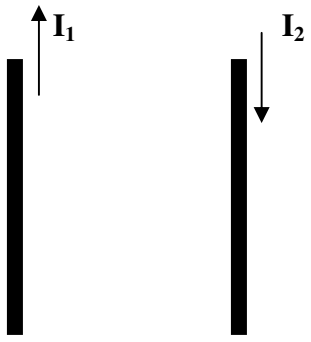
10. A. Is the current in the wire going up or down?
    B. On the left side of the wire, is B into or out of the page?



11. A. Draw B on both sides of each wire at the right (*draw it close to each wire*).

    B. In between the two wires are the two magnetic fields go ing the same direction or opposite directions?

    C. Will the wires be attracted or repelled by each other?



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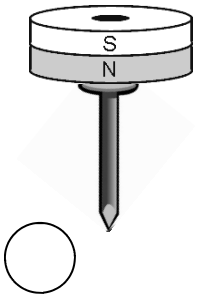
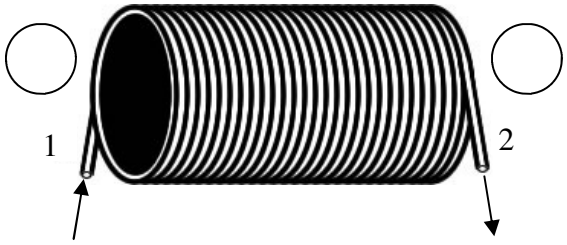
12. Fill in the compass.



13. A. If + current goes in side 1, which side of the solenoid is N?

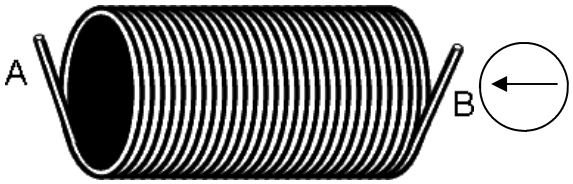
    B. Fill in the compasses.

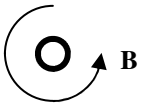
    C. Which side is hooked up to the negative side of the battery?



14. A. Label N and S on the solenoid.

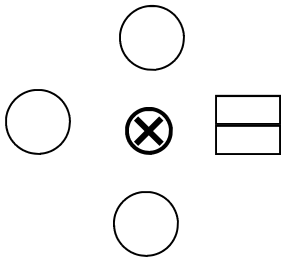
    B. Which side did positive current go in?





15. If the small circle at the left is a wire, and the arrow shows the direction of the magnetic field, is the current coming out of or into the page?

16. The X shows the direction of current in a wire.
    A. Fill in the three compasses.
    B. Draw N and S on the magnet.



Review for final.

17. At what temperature does water turn to ice?
18. At what temperature does water turn to steam?
19. 5 kg of water is originally at –5°C and is heated up to 60°C.
    A. What state of matter was the water at originally: solid, liquid, or gas?
    B. What state of matter did water end up as?
    C. How many degrees did the water increase in its first state?
    D. How many degrees did the water increase in its second state?
    E. Did the water under go fusion or vaporization?
    F. Using your notes on "Heat" and "Latent Heat", calculate the total heat necessary to raise the water's temperature.