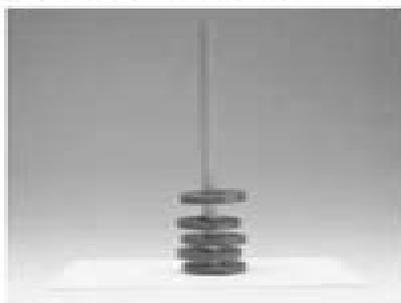


## Practice Problems

24.1 Magnets: Permanent and Temporary  
pages 643–651

page 647

1. If you hold a bar magnet in each hand and bring your hands close together, will the force be attractive or repulsive if the magnets are held in the following ways?
  - a. the two north poles are brought close together  
**repulsive**
  - b. a north pole and a south pole are brought together  
**attractive**
2. Figure 24-7 shows five disk magnets floating above each other. The north pole of the top-most disk faces up. Which poles are on the top side of each of the other magnets?



■ Figure 24-7

**south, north, south, north**

3. A magnet attracts a nail, which, in turn, attracts many small tacks, as shown in Figure 24-3 on page 645. If the north pole of the permanent magnet is the left end, as shown, which end of the nail is the south pole?  
**the bottom (the point)**

4. Why do magnetic compasses sometimes give false readings?  
**because Earth's magnetic field is distorted by objects made of iron, nickel, or cobalt in the vicinity of the compass, and by ore deposits of these same metals**

page 650

5. A long, straight, current-carrying wire runs from north to south.
  - a. A compass needle placed above the wire points with its north pole toward the east. In what direction is the current flowing?  
**from south to north**
  - b. If a compass is put underneath the wire, in which direction will the compass needle point?  
**west**
6. How does the strength of a magnetic field, 1 cm from a current-carrying wire, compare with each of the following?
  - a. the strength of the field that is 2 cm from the wire  
**Because magnetic field strength varies inversely with the distance from the wire, the magnetic field at 1 cm will be twice as strong as the magnetic field at 2 cm.**
  - b. the strength of the field that is 3 cm from the wire  
**Because magnetic field strength varies inversely with the distance from the wire, the magnetic field at 1 cm will be three times as strong as the magnetic field at 3 cm.**

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**Michael Brown**



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