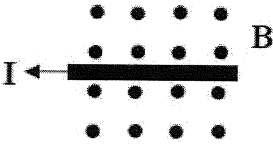
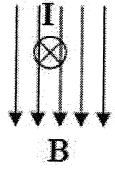
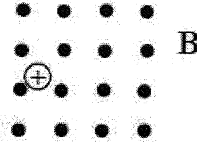
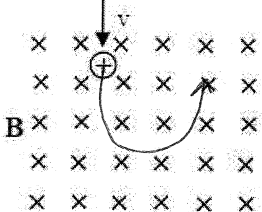
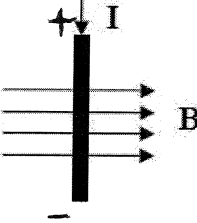
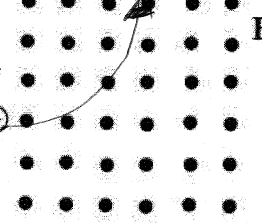
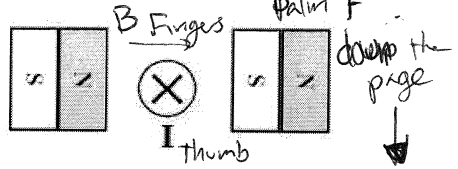
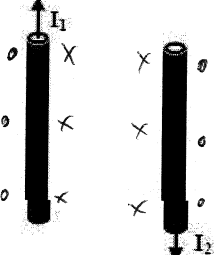
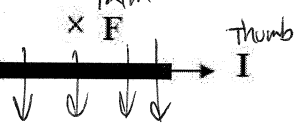
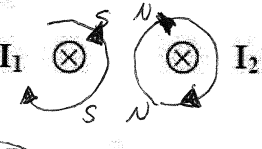
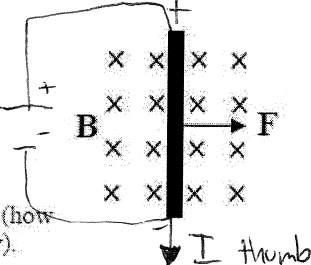
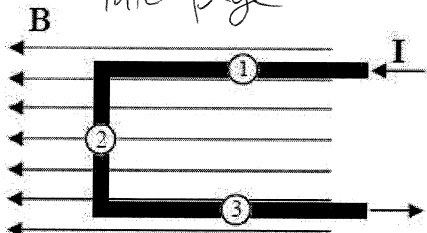


<p>1. A. What is the direction of the magnetic field (the dots)? <i>out</i></p> <p>B. Find the direction of the force on the wire. <i>up</i></p> 	<p>2. The "x" shows the current in the wire.</p> <p>A. The current flowing into or out of the page? <i>into</i></p> <p>B. In what direction does the wire deflect because of the magnetic field? <i>left</i></p> 
<p>3. A proton is at rest in a magnetic field. What will be the direction of the magnetic force on the proton? <i>none, no velocity</i></p> 	<p>4. A. If B is going into the page and the charge is moving down as it enters, draw the path of the charge due to F_B.</p> <p>B. How would the path change if the charge was moving faster? <i>Larger velocity larger curve</i></p> 
<p>5. A. Which direction are the charges moving in the wire? <i>down</i></p> <p>B. Which side of the wire is connected to the + side of the battery? <i>top</i></p> <p>C. Find the direction of the force on the wire. <i>out of page</i></p> 	<p>6. A. What will be the direction of the magnetic force on the electron when it enters B? <i>negative charge so, left hand rule</i></p> <p>B. Draw the electron's path inside the magnetic field.</p> 
<p>7. Find the direction of the force on the wire.</p> 	<p>9. A. Draw the magnetic fields produced by each wire.</p> <p>B. Between the two wires, are their magnetic fields going the same way or opposite ways?</p> <p>C. Do the wires attract or <u>repel</u>?</p> 
<p>8. A magnetic field pushes a wire into the page, as shown. Which way must the magnetic field point?</p> 	<p>11. A. Which direction is the current in the wires? <i>into page</i></p> <p>B. Draw the magnetic fields around each wire.</p> <p>C. Will the two wire repel or <u>attract</u> each other?</p>  <p><i>Current same direction equals attraction</i></p>
<p>10. A. Find the direction that the current (the charges) is flowing in the wire.</p> <p>B. Label + and - on the wire (how it is attached to the battery).</p> 	<p>13. A. What is the direction of the force on wire segment 1? <i>No F, I + B are parallel</i></p> <p>B. What is the direction of the force on wire segment 2? <i>into page</i></p> 
<p>12. A. Draw the magnetic field between the magnets.</p> <p>B. To cause the given force, which direction is the current flowing?</p> <p>C. Connect the wire correctly to the battery.</p> 