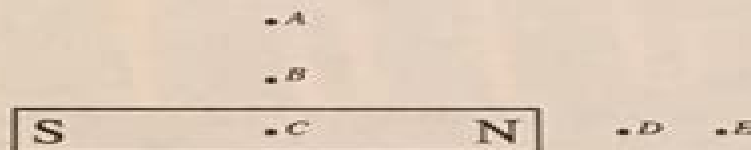


1. Answer the questions below on the basis of your experience with charges and magnets.

a. Based on your experience with *electric field lines*:

- how should the *direction* of the magnetic field at every point be related to the *magnetic field lines*?
- how should the *strength* of the magnetic field at every point be reflected in the *magnetic field lines*?

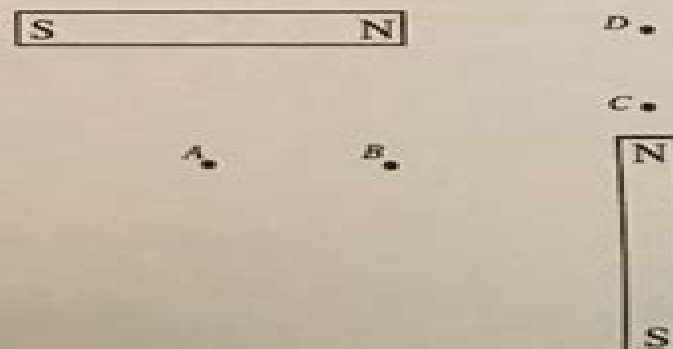
b. Carefully draw the *magnetic field lines* for the bar magnet shown below. Be sure to draw the field lines so that they include information about the *strength* and *direction* of the field both inside and outside the magnet.



c. Based on the magnetic field lines you have drawn, rank the magnitude of the magnetic field at points A–E.

2. Two identical magnets are placed as shown. Using different colored pens sketch the approximate magnetic field vectors at the four labeled points for:

- just the horizontal top magnet,
- just the vertical bottom magnet, and
- when both are present.



Explain how you determined the field vectors for the case when both magnets are present.

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ML Morrison



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