

Section

**21-1**

HOLT PHYSICS

**Concept Review**

*Magnets and Magnetic Fields*

1. You have three marbles, A, B, and C, that look identical. Each of them contains either a magnet or a piece of iron. You have observed that A sticks to B, but B does not stick to C.

a. Could all three contain iron?

\_\_\_\_\_

\_\_\_\_\_

b. Could all three contain magnets?

\_\_\_\_\_

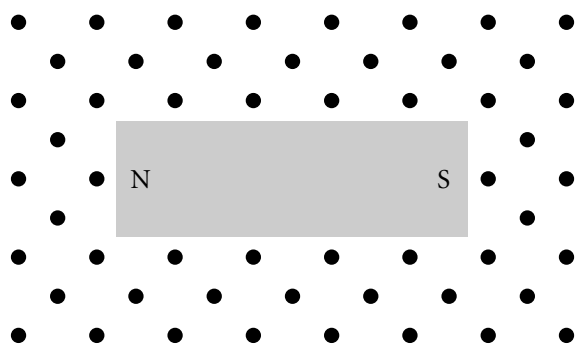
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c. Which of them contain magnets? Which contain iron?

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\_\_\_\_\_

2. Many compass needles are placed around a bar magnet at the locations marked on the diagram. Sketch arrows at each point showing to which direction each compass will be pointing.



3. In the space below, sketch a horseshoe magnet, and draw lines indicating the direction of the magnetic field around it.

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