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The drawing below shows two strong bar magnets. The north pole of one of the magnets has been identified. The other poles are labeled 1, 2, and 3.



- Based on the position of the magnets, identify each of the poles (labeled 1, 2, and 3) as either north or south.
- Explain how you were able to identify each of the poles in part (a).
- Describe what would happen if the second magnet was flipped so that the poles labeled 1 and 3 were next to each other.