

Magnetism: Introduction

⚠ This is a preview of the draft version of the quiz

Started: Nov 20 at 2:01pm

Quiz Instructions

Question 1

1 pts

Magnetic field lines _____ the north pole of a magnet and _____ the south pole.

- are attracted to; are repelled by
- are repelled by; are attracted to
- are attracted to; are repelled by
- point away from; point to

Question 2

1 pts

If you consider that magnetic field lines are vectors, which term best describes how the vector arrows would appear in relation to the circular field lines?

- tangent
- asymptotal
- perpendicular
- parallel

Question 3

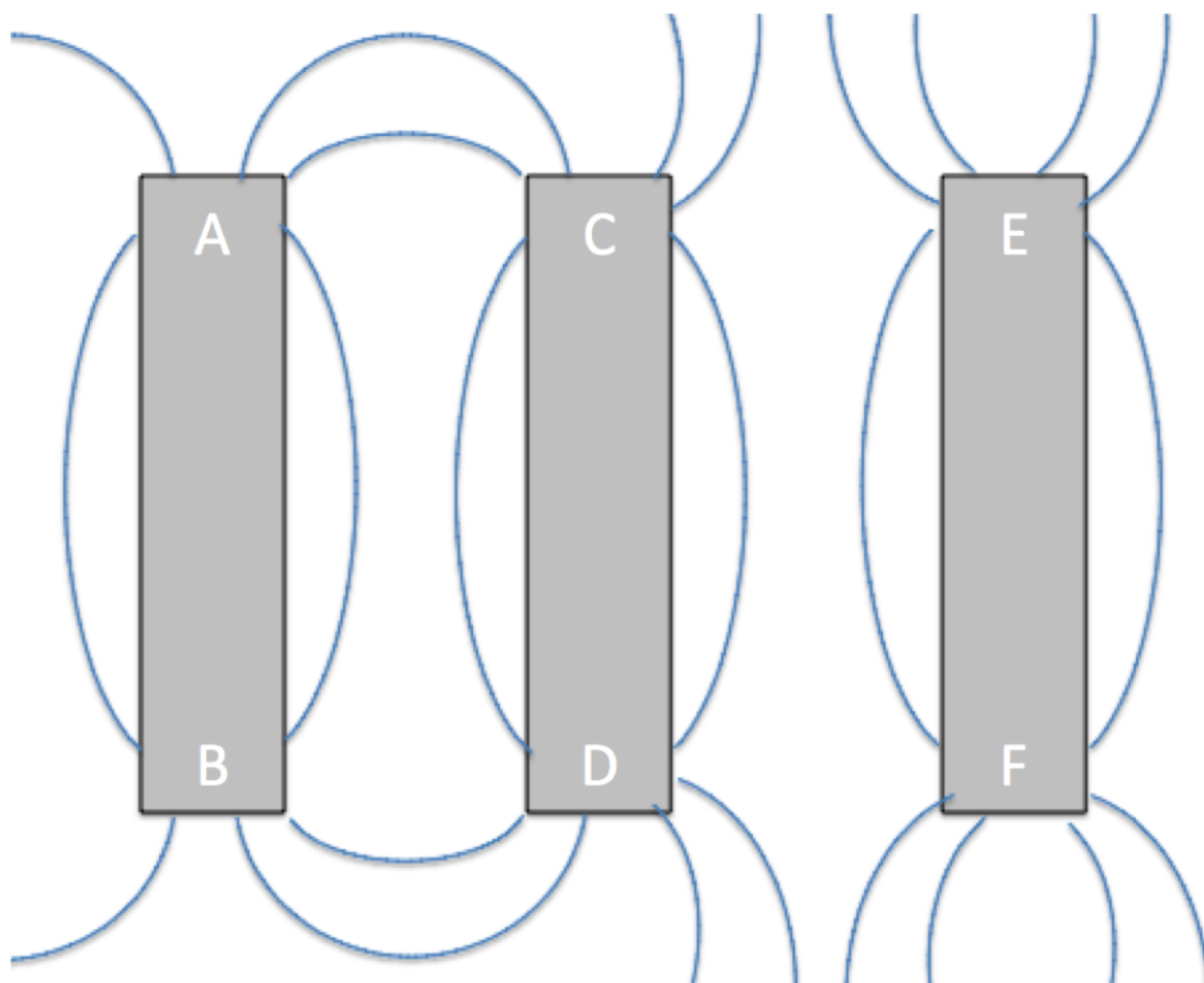
1 pts

If you cut a bar magnet in half, then-

- you will have isolated the north and south magnetic monopoles.
- each smaller magnet will create the same magnetic field as the original.
- you will have two smaller magnetic dipoles.
- the magnetic properties will be destroyed.

Question 4

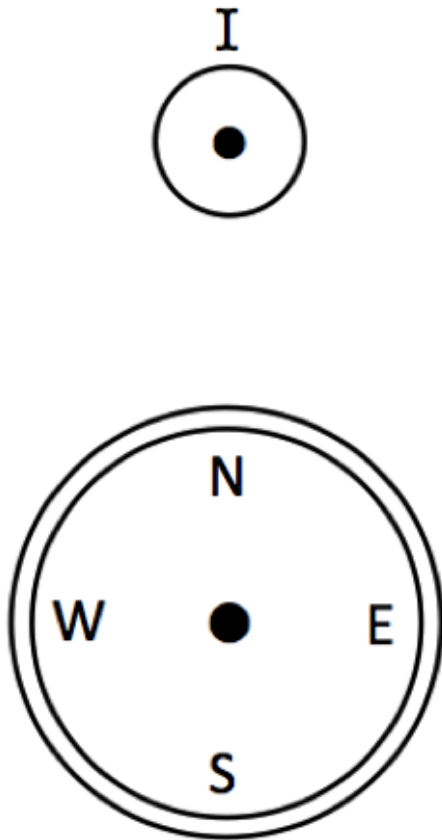
1 pts



The diagram above shows the lines along which iron filings fell as they were sprinkled over 3 bar magnets. Pole A is the same as

- B and C.

- D and E.
- C and F.
- D and F.

Question 5**1 pts**

There is a long, straight wire running into the plane of the screen with current flowing in the direction out of the plane of the screen. A compass is placed close to the wire as shown above. Which direction would you expect the needle of the compass to point?

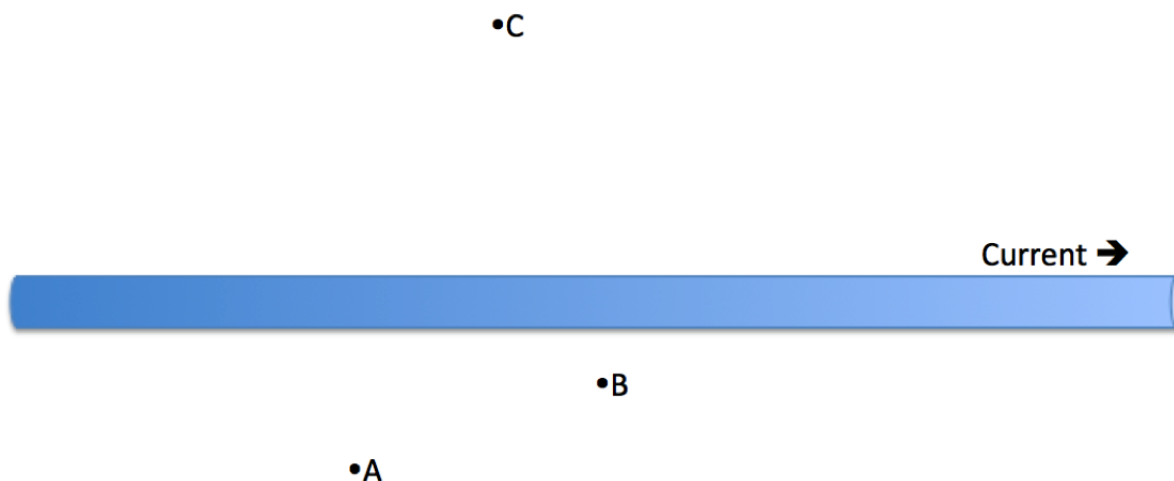
- half way between the W and the N labeled on the compass
- to the E labeled on the compass
- half way between the E and the N labeled on the compass

- to the N labeled on the compass

Question 6**1 pts**

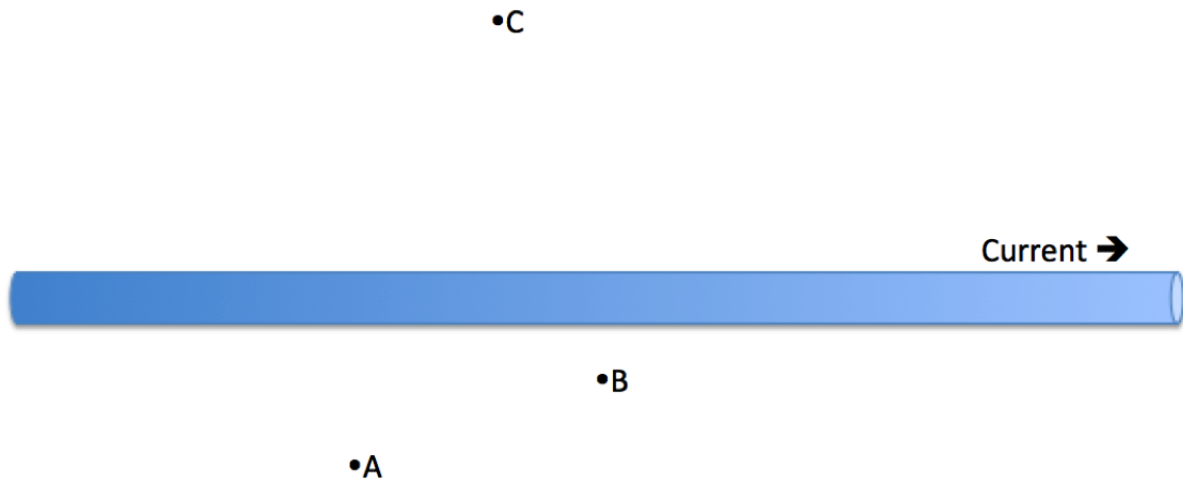
A small circuit generates a current that goes through a loop of wire that runs around a clock, clockwise. As you face the clock face, what is the direction of the magnetic field within the loop?

- clockwise
- counter-clockwise
- out of the clock
- into the clock

Question 7**1 pts**

Consider a straight length of wire carrying a current as indicated. At which point is the magnetic field the strongest?

- They are all equal
- B

C A**Question 8****1 pts**

What is the direction of the magnetic field at point C?

- out of the screen
- toward the top of the screen
- toward the bottom of the screen
- into the screen

Question 9**1 pts**

Choose all of the statements about magnetism that are true. Choose all that apply.

- Magnetic fields are strongest at the poles.
- Magnetic field lines point away from the north pole and toward the south pole.
- Magnetic field lines point toward the north pole and away from the south pole.

Magnetic fields are strongest at infinity.

Quiz saved at 2:02pm

Submit Quiz