

Name: _____

Magnetism Worksheet #1

Draw the magnetic field patterns around:

1. A bar magnet
2. A horseshoe magnet
3. Two magnets placed opposite pole to opposite pole
4. Two magnets placed like pole to like pole

Circle the correct answer

6. Four circular pieces of metal were brought close to one another during a laboratory experiment. Only one of these pieces of metal is a MAGNET.

The following table shows whether or not these pieces of metal attracted one another.

| Combination | Attraction | |
|---------------------|------------|----|
| | Yes | No |
| Piece 1 and piece 2 | | X |
| Piece 1 and piece 3 | | X |
| Piece 1 and piece 4 | | X |
| Piece 2 and piece 3 | X | |
| Piece 2 and piece 4 | X | |
| Piece 3 and piece 4 | | X |

Which piece of metal is a magnet?

- a. Piece 1
- b. Piece 2
- c. Piece 3
- d. Piece 4

2. Four objects W,X,Y and Z were brought close together two at a time. One of these objects is magnetic,one is nonmagnetic and two are ferromagnetic. The results were as follows:

| OBJECTS | RESULT |
|---------|----------------------------------|
| W and X | The objects attracted each other |
| X and Y | The objects attracted each other |
| W and Y | Nothing happened |
| X and Z | Nothing happened |

Which of these objects is nonmagnetic?

- a. W
- b. X
- c. Y
- d. Z