

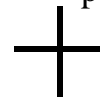
LAB PARTNERS: _____ ; _____

1. Make sure your lab group has the following items: • a magnetic compass • a card with a compass course
2. Record your compass course number: _____
3. **Each** member of the lab group should walk the 50 ft course on the sidewalk, and try to develop either a 2 ft or a 3 ft pace that they can get the feel of and duplicate. There are separate markings on the sidewalk for the 2 ft and 3 ft paces. A couple of tries may be necessary for this.
4. Pace the compass course, taking into account both the length and direction of each portion. Be sure that each person does at least one portion.
5. When you arrive at the finish, follow the printed instructions you will find there, and then return to class.
6. CAREFULLY draw a vector diagram of your compass course, to a scale of 1 cm = 10 ft, in the space below. Label each vector with its **magnitude and direction**.
7. Draw the resultant vector, and label it with its **magnitude and direction**.

N



Starting
point



8. Use the computer program Vector Addition 3 to enter your vectors and find the resultant. Record the magnitude and direction of the resultant in the spaces provided.

Magnitude: _____ Direction: _____