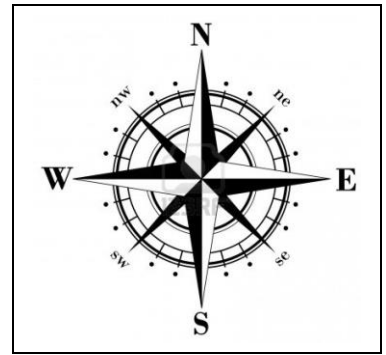


Position: Distance VS Displacement LAB



With a partner, do the following *include units* ("steps") and for displacement Write the direction N, NE, NW, S, SE, SW, E, W: _____

- 1) Partner A: From the starting point, walk three steps forward, two steps to the right, one step back, ten steps to the left and 6 steps back.

Partner B: Measure displacement

Displacement: _____ Distance: _____

(Ending distance relative to starting point.) (Total Steps taken)

- 2) Partner B: From the starting Point, walk 8 steps backward, 3 steps to the right, 12 steps forward, two steps to the left and 5 steps forward.

Partner A: Measure displacement

Displacement: _____ Distance: _____

- 3) Partner A: From the starting point, walk 12 steps to the right, 12 steps backward, 8 steps to the right, one step forward, and ten steps to the left

Partner B: Measure displacement

Displacement: _____ Distance: _____

- 4) Partner B: From the starting Point, walk 10 steps forward, 3 steps to the right, 5 steps backward, 2 steps to the left, 5 steps backward, and 1 step to the left.

Partner A: Measure displacement

Displacement: _____ Distance: _____

WRITE UP: (complete sentences!!!) on a separate sheet of lined paper!

- 1) What is the difference between displacement and Distance?
- 2) Was your data accurate?
- 3) What could make your data more accurate? (name at least 2 elements that could have improved your data.)
- 4) What two things must displacement have?
- 5) What did you learn overall from this lab?