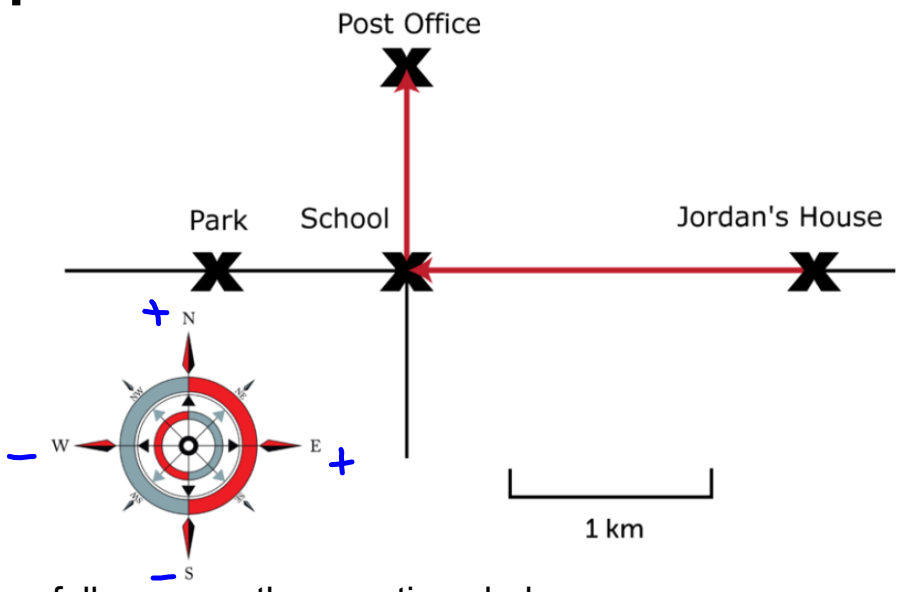
Concept Practice:



In, pairs, carefully answer the questions below:

1. Calculate the distance from Jordan's house to the post office.
2. T or F, the park is North-East from the post office.
3. Calculate the position of the school from Jordan's house.
4. Calculate Jordan's final position from school if he walks to the park and then home.
5. How would you calculate the displacement from Jordan's house to the post office?
6. T or F, the school is -1 km North from the post office.
7. T or F, the park is -3 km from the Jordan's house
8. T or F, Jordan's house is -3 km East from the park.
9. Calculate the distance traveled if Jordan walked from home, to the park, to the post office, and finally to school.
10. Calculate Jordan's displacement from home for question 9.
11. T or F, Jordan lives South-East of the post office.
12. T or F, the post office is located North-West of Jordan's house.
13. How does the choice of frame of reference effect the calculations for displacement?
14. Describe the importance of a coordinate system in physics.