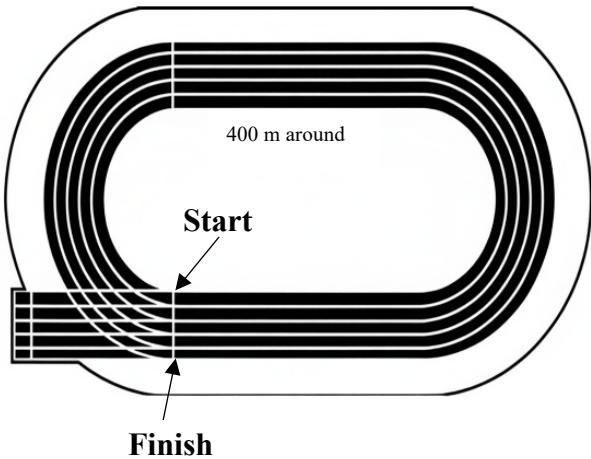


Displacement and Direction

Engage

What To Do:

1. Look at the picture below and answer the questions.



Questions:

1. What is a runner's beginning position in a race around this track?

2. What is a runner's final position in a race around this track?

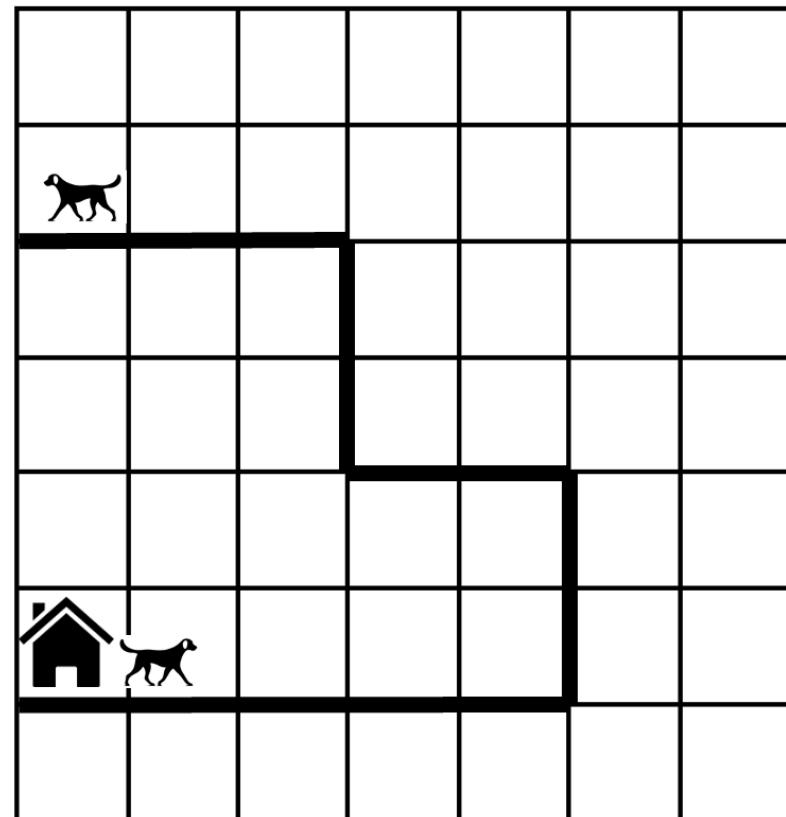
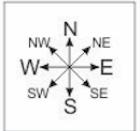
3. How does the runners final position compare to the starting point?

4. How far did the runner travel in the race?

Explore

What To Do:

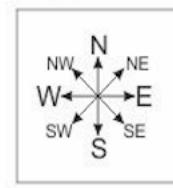
Look at each scenario and answer the questions



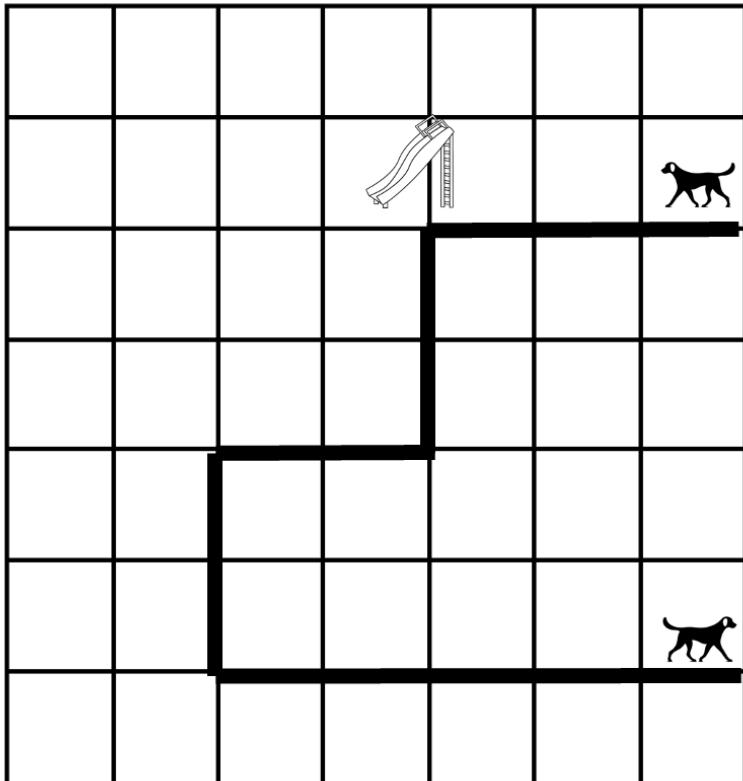
A dog left home and wandered around the neighborhood.

Questions:

1. How many squares did the dog walk in total? _____
2. How many squares from the beginning position of the dog is the final position of the dog? _____
3. Use the compass rose at the top of the page to determine what direction the dog is from its beginning position to its final position?



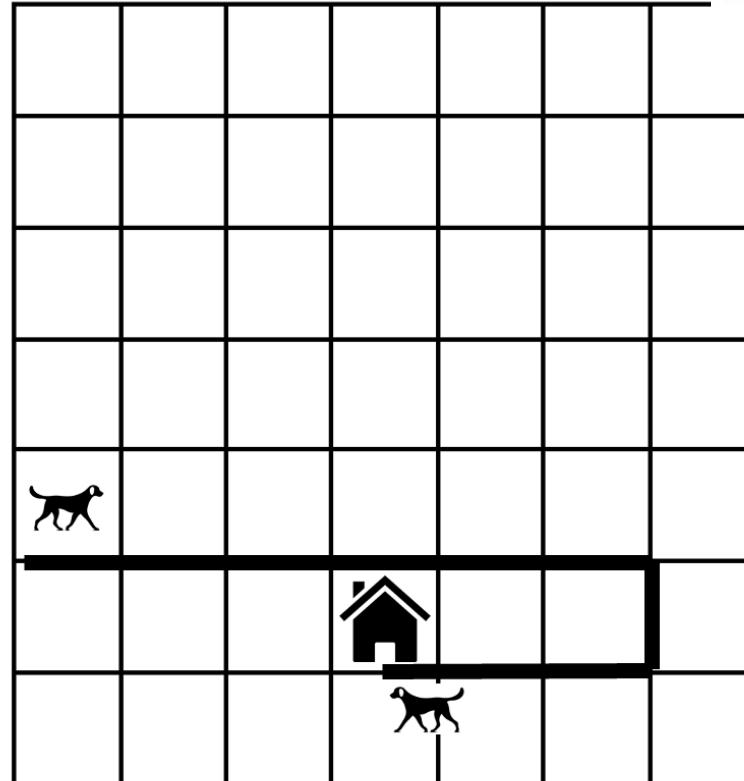
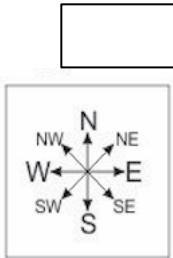
The dog continued to wander the neighborhood and visited a park and played with the kids that were there.



Questions:

1. In this scenario how many squares did the dog walk to get to the park? _____
2. How many squares did the dog walk to get from the park to the final position? _____
3. Use the compass rose at the top of the page to determine what direction the dog is from its beginning position to its final position? _____

The dog had a busy day and decided to walk home.

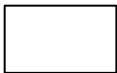


Questions:

1. In this scenario how many squares did the dog walk to get home? _____
2. Use the compass rose at the top of the page to determine what direction the dog is from its beginning position to its final position? _____
3. How many squares away from home is the dog at this time? _____

FORCE AND MOTION IDEAS

Explain



DISTANCE

DISPLACEMENT

DIRECTION

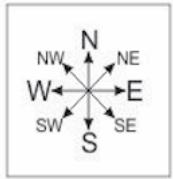
Elaborate

Draw a scenario that you would walk that would have the following data getting from school to your home.

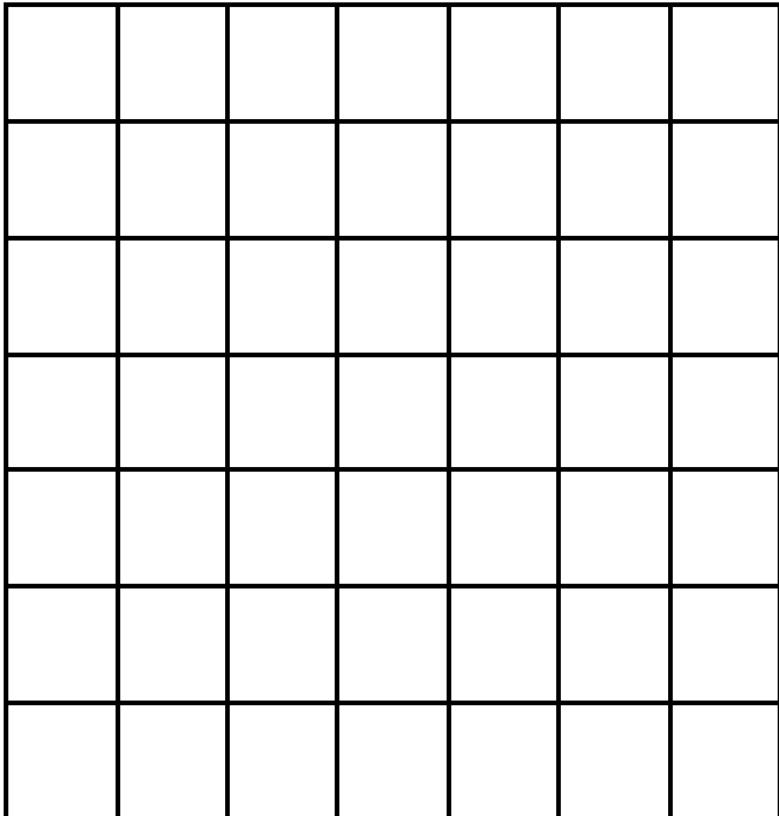
Distance 10 squares

Displacement 6 squares

Direction South

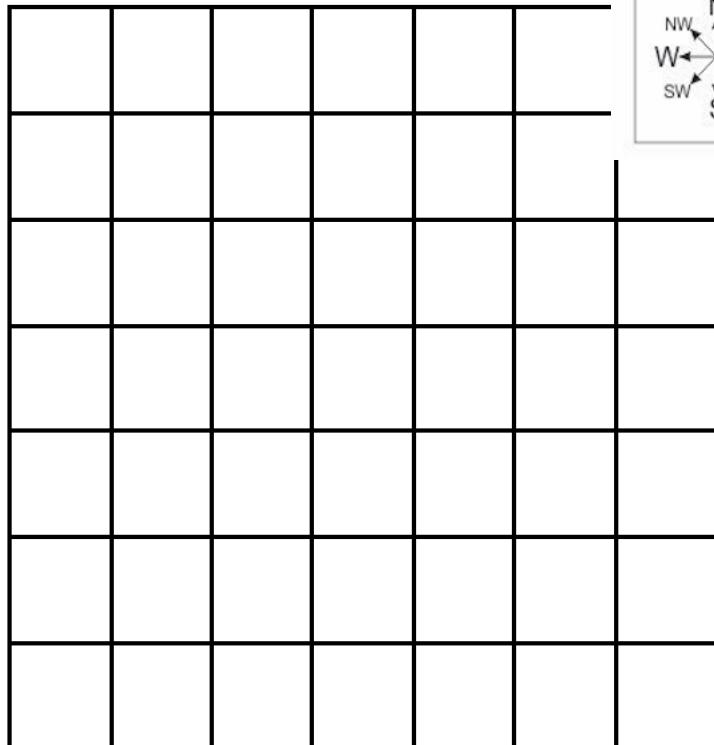


Draw and label the school and your home.



Write and draw a scenario in space and grid below. Pass it to your partner to determine the distance, displacement and direction.

Scenario:



Distance _____

Displacement _____

Direction _____

Evaluate

Name _____

period _____

EXIT TICKET

Displacement and Direction

1. The total length of the path traveled is known as –
 - Distance
 - Displacement
 - Direction
 - Deposition
2. The straight line change in position from a starting point to an ending point is known as –
 - Distance
 - Displacement
 - Direction
 - Deposition
3. The line or course along which something moves is known as –
 - Distance
 - Displacement
 - Direction
 - Deposition
4. A runner ran 1500 meters in a straight line from her house to the grocery store that is located northeast of her house. What is her distance, displacement and direction?
 - 0 meters, 1500 meters, southeast
 - 1500 meters, 1500 meters, southwest
 - 1500 meters, 0 meters, southeast
 - 1500 meters, 1500 meters, southeast