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Name: _____ Date: _____ Period: _____

CP PS Unit 8A: Motion
Distance and Displacement Lab Activity

Indicators:
PS-2.1 Explain the relationship among distance, time, direction, and velocity of an object.

Objectives:

- Compare and contrast distance and displacement.
- Use a graph to determine distance and displacement of an object.
- Use the correct units for distance and displacement.
- Demonstrate a scenario where the displacement of an object is zero, but the distance is not.

Part 1
Use the graph paper to draw each scenario. Fill in the correct information for distance and displacement using the correct units. The first example has been completed for you. Use this as a guide to complete the rest of the table. Assume that 1 square = 1 meter.

_____meters traveled
_____distance traveled from starting point to ending point, ignoring the journey in-between.

If the journey is NOT a straight line, simply draw an arrow (vector) from the starting point to the ending point and measure the length of the arrow. Don't forget to include the DIRECTION.

	First Move	Second Move	Distance (m)	Displacement
1	Move 4 meters east	Move 2 meters east	6	2 m east
2	Move 4 meters north	Move 2 meters south		
3	Move 2 meters east	Move 4 meters east		
4	Move 3 meters east	Move 5 meters east		
5	Move 3 meters south	Move 2 meters south		
6	Move 10 meters west	Move 3 meters east		
7	Move 3 meters east	Move 4 meters north		
8	Move 6 meters east	Move 8 meters south		
9	Move 6 meters north	Move 12 meters east		

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