

Name: _____ Date: _____ Period: _____

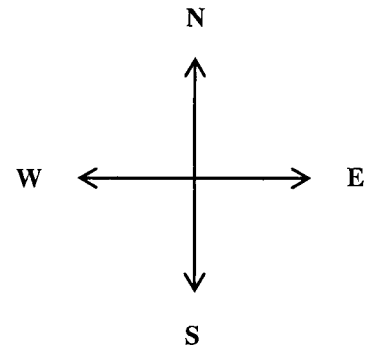
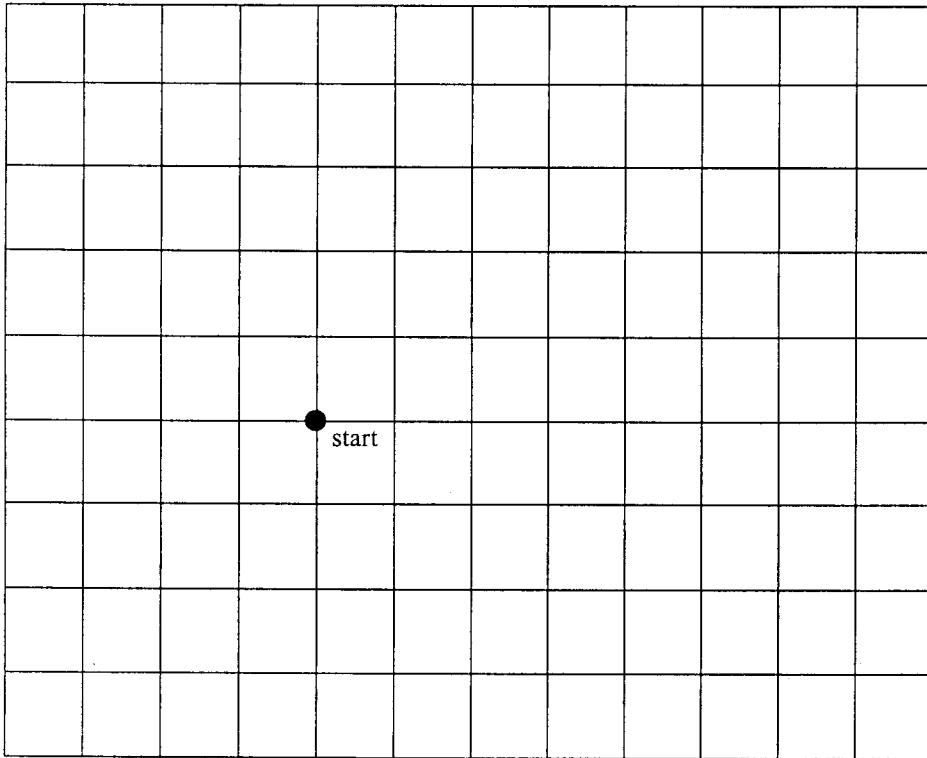
Activity: Distance and Displacement

Purpose: To map distance and direction.

Procedure: The grid drawn below contains a hidden treasure chest. To find it, follow the directions using a metric ruler and draw a continuous line on the grid. Place an "X" at the end of your line. This is where the key to unlock the treasure chest fits.

Directions:

- | | | |
|--------------------------------|----------------|-----------------------------------|
| 1. From start, go 2 cm N, then | 8. 2.8 cm SE, | 15. 4 cm N, |
| 2. 6 cm E, | 9. 1cm S, | 16. 2 cm E, |
| 3. 5 cm S, | 10. 6 cm W, | 17. 2 cm S, |
| 4. 6 cm W, | 11. 2.8 cm NW, | 18. 2 cm E, |
| 5. 2.8 cm NW, | 12. 1 cm N, | 19. 2 cm N, |
| 6. 5 cm N, | 13. 2.8 cm SE, | 20. 1.5 cm SW, place an "X" here. |
| 7. 6 cm E, | 14. 5 cm S, | |



Scale: 1 side of a square = 1cm

Questions:

1. What is the total distance traveled to find the treasure? _____
2. What is the total displacement? _____
3. What is the difference between distance and displacement? _____

