

**Choose 5 questions to answer; For each of the 5 draw a picture to illustrate or explain how you would solve for the distance and the displacement. What are the values of Distance and Displacement for the following?**

1. A student walks 300m East, 200 m West, and then 300m East.
2. A student walks 100m East, 300m West, and then 50m East.
3. A student walks 100m East, 200m North, 100m West, and 200m South.
4. A cross-country runner leaves the school, runs for 10,000 m, and then returns to the school.
5. A student runs 16 laps on the track, ending at the same place she started.
6. A student walks half the circumference of a circle that has a radius of 200m.
7. A student walks the complete circumference of a circle that has a radius of 200m.
8. A student walks the complete circumference of a circle that has a radius of 770m.

