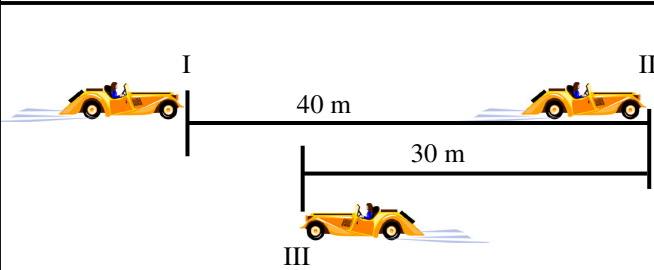
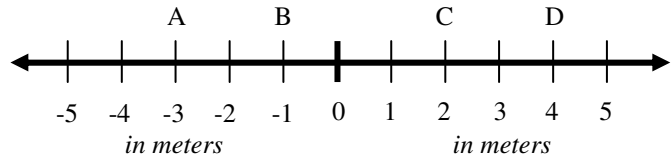


Name: _____

Period: _____

1. Use the number line at the right to answer the following questions.

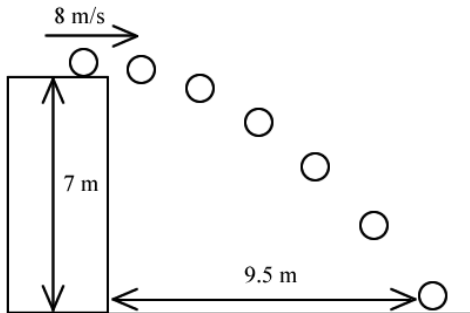
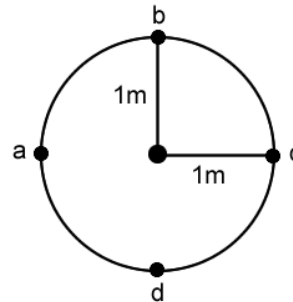
- A. What is the position of letter A? $x_A =$
- B. What is the position of letter C? $x_C =$
- C. What is the distance from A to C?
- D. What is the distance from D to A?
- E. What is the displacement from D to A?



- 2. A. If II is the reference point, what is the position of the car at I?
- B. What is the total distance the car traveled? $D =$
- C. What is the car's first displacement from I to II?
- D. What is the total displacement of the car from I to III: $\Delta x =$

- 3. A. What is the curved distance from a to c?
- B. What is Δx from a to c?
- C. What is the curved distance from c to a?
- D. What is Δx from c to a?
- E. What is the distance 1 time around the circle?
- F. What is the displacement 1 time around?

Circumference = $2\pi = 6.28$ m
 $1/2$ Circum. = $\pi = 3.14$ m



- 4. A ball is thrown horizontally from the top of a 7 m tall ledge.
- A. What is its vertical displacement during the fall? $\Delta y =$
- B. What is its horizontal displacement? $\Delta x =$
- C. What is the total displacement (straight line) from start to finish?

5. The grid at the right is 1 m between each of the horizontal and vertical rows.

- A. From D to E: $\Delta x =$ $\Delta y =$
- B. From A to M: $\Delta x =$ $\Delta y =$
- C. From B to O: $\Delta x =$ $\Delta y =$
- D. Draw this path: D to B to J to L:
 i. $\Delta x =$ ii. $\Delta y =$ iii. $D_{\text{total}} =$
- E. What is the total displacement (straight line) from B to P?

