Elite private school/ Physics department
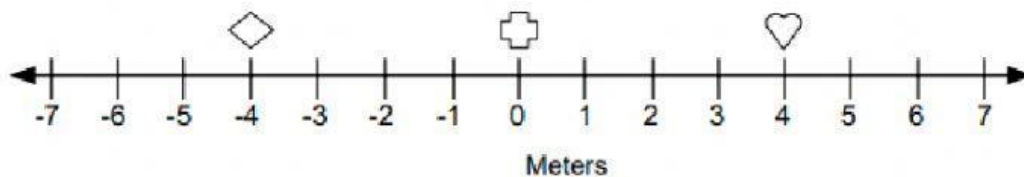
Grade 11

Worksheet #1

Introduction to Position, Distance, and Displacement (L1)

Question 1:

Use the number line below to give the positions of the objects (Don't forget units!):
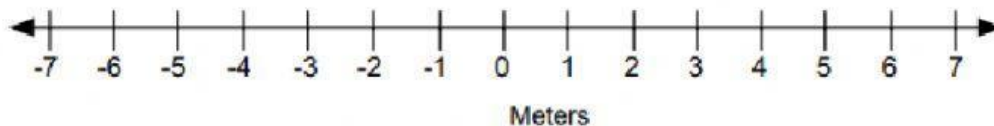

Meters

1. What is the position of the heart? _____

2. What is the position of the diamond? _____

3. What is the position of the cross? _____

Question 2 :

Locating Positions:

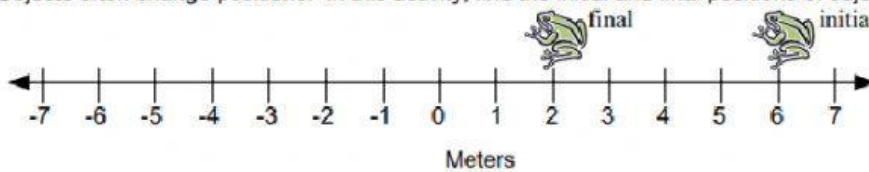Draw the object at the indicated locations:

Meters

4. Put an "s" at the 2 m mark.
5. Put a "d" at the -6 m mark.
6. Put a "k" at the 7 m mark.
7. Put an "e" at the −1 m mark.

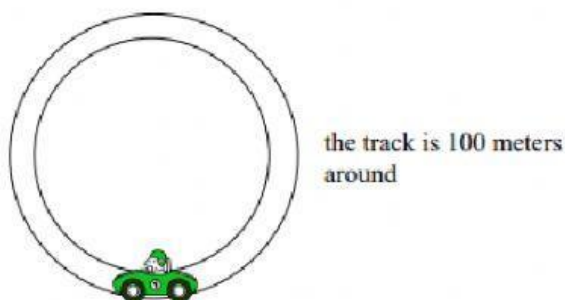# Introduction to Position, Distance, and Displacement (L2)

Question 3:

Changing positions:

Objects often change positions. In this activity, find the initial and final positions of objects.

Meters

8. What is the initial position of the frog? _____

9. What is the final position of the frog? _____

10. If the frog traveled in a straight line from the initial position to the final position, what distance did it travel? _____
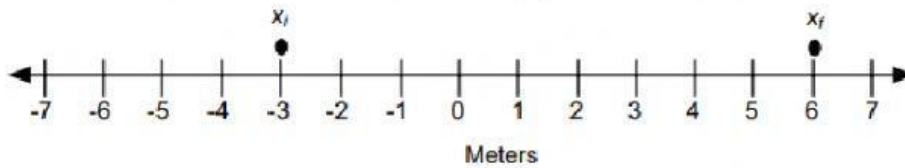
Question 4:

the track is 100 meters around

11. If the car travels once around the racetrack, what distance does it travel? _____

12. If the car travels twice around the racetrack, what distance does it travel? _____

13. If the car travels once around the racetrack, what is its displacement? _____

Elite private school/ Physics department

Grade 11

Worksheet #1

Introduction to Position, Distance, and Displacement (L3)
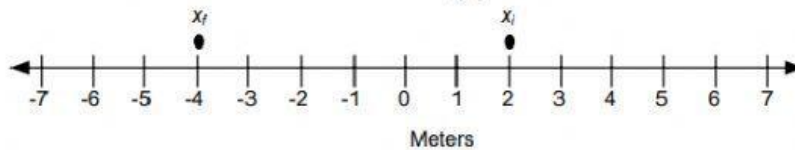
Question 5:

Use the number line below to answer the following questions:

14. Is the initial position positive or negative? _____

15. Is the final position positive or negative? _____

16. Is the displacement positive or negative? _____

17. What is the displacement [size (with units) and direction (+ or -)]? _____

Question 6:

Use the number line below to answer the following questions:

18. Is the initial position positive or negative? _____

19. Is the final position positive or negative? _____

20. Is the displacement positive or negative? _____

21. What is the displacement [size (with units) and direction (+ or -)]? _____