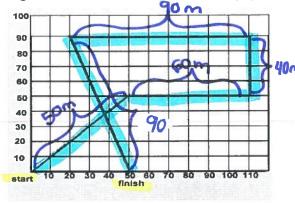
	Key er 1 Physics Study Guide	Period: Date:
Спари		Date:
This g	warning wide is not the only thing you should use to study. It does not p rely on your textbook, homework, and classroom notes. It	
	1: Motion – Binder entries Page 19-21, textbook pg True False: An object is in motion if its distance from	
2.	An object you use to compare and to determine if me a. Comparison object b. Force c. Newton	
3.	Imagine you are sitting in a chair. It is both correct to Which reference point below can be used to prove the a. The ground b. The chair you're sitting in	
4.		nce point. Stationary reference point Moving reference point
5.	Imagine you are riding in a car. After looking out the which objects below would appear to be in motion? The person sitting next to you The ground The sun The interior of the car	
6.	Person A is standing on the platform of a train statio train. Which person appears to be in motion, and where the person A = Appears to be moving Person B = Is actually moving	
	2: Distance – Binder entries 22-25, textbook pg. 9	1
7.	Why is it important for scientists to use the SI system clearly about measurements regard	n of units? So they can communicate
8.	Match the following units with the type of measuren Match the following units with the type of measuren A. Speed D. minutes A. Speed C. Acceleration D. Time	nent they are used for:
9.	Match the following SI units of measurement with the The width of a blade of grass The length of your living room The distance from Pennsylvania to New York The length of your shoe	ne distance you would use them to measure: A. Meter (m) B. Kilometer (Km) C. Centimeter (cm) D. Millimeter (mm)

- 10. A turtle with a red paint brush attached to its shell is placed on a grid. The turtle is allowed to crawl around the grid and traces out the path shown on the right. All numbers are in meters (m).
 - a) What is the total distance covered by the turtle?

b) What is the displacement of the turtle?





- 11. A bear leaves his cave and walks 500 meters to a nearby river to catch fish. After the bear finishes eating, it returns to its cave.
 - a) What is the total distance covered by the bear?
 - b) What is the displacement of the bear? ______

Topic 3: Speed - Binder entries Page 7-9, textbook pg. 26-29

- 12. *True/False:* In order to calculate speed, you need to know distance and time.
- 13. Draw the speed triangle and list the three equations it gives you.



14. If Steve throws a football 50 meters in 3 seconds, what is the speed of the football?

15. If it takes Ashley 3 seconds to run from the batters box to first base at a speed of 6.5 meters per second, what is the distance she covers in that time?

- 16. Bart ran 5000 meters from a lion and a speed of 6 meters/second before he got caught. How many seconds did he run before getting caught?
- 17. A race car completes 4 laps around a circular race track. The driver's distances and times are recorded below. Use the data to calculate the car's instantaneous speed for each lab, and then calculate the car's average speed for the entire 4 laps.

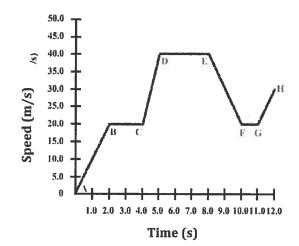
Lap #	Distance	Time	Inst. Speed	Average speed	Total
11	2.5km	52sec	0.05 Km/s	10/218	distan
2	2.5km	58sec	0.04 Km1s		Total
3	2.5km	48sec	0.05 Km/3	0.05 m/s	Jime
4	2.5km	60sec	0.04 Km/S		

<u>Topic 3: Acceleration - Binder entries page 10-12 textbook pg. 30-32</u>

- 19. Acceleration is:
 - a. The distance covered in a certain unit of time
 - b. The distance between the starting point and the ending point
 - c.The rate at which velocity changes
- 20. Match the definitions with the correct type of acceleration:
 - When an object slows down
 - A When an object speeds up
 - When an object starts moving north and turns west
 - ____ When an object has constant speed
- A. Positive acceleration
- B. Deceleration
- C. No acceleration
- D. Change in direction
- 21. At the top of a hill, a roller coaster car has a speed of 4 m/s. 3 seconds later, at the bottom of the hill, its speed is 22 m/s. What is its acceleration?

22. A rocket can accelerate from rest to 70 km/min in 2 minutes. Find the rocket's acceleration.

23. Use the speed versus time graph to answer the following questions about a car's motion.



a) Between which points was the car accelerating?

b) Between which points was the car decelerating?

c) Between which points was the car not accelerating?