

SNS academy



an International CBSE Finger Print School Coimbatore

	Name :			Date:			
	Grade :	W	orksheet	Submission Date:			
	Subject : Physi	ics		Parent's sign :			
Motion							
1.	. A cyclist travels a distance of 15 km at 10 km/h and then another 15 km at 30 km/h. What is the						
	average speed for the entire journey?						
	a. 15 km/h	b. 20 km/h	c. 18 km/h	d. 25 km/h			
2	. A train starts from res	st and moves with a ι	uniform acceleration. If	it covers 400 m in 20 seconds,			
	what is its acceleration	n?					
	a. 2 m/s^2	b. 1 <i>m/s</i> ²	c. 4 m/s^2	d. $0.5 \ m/s^2$			
3. Which of the following situations depicts non-uniform motion?							
	a. A car going around a circular track at constant speed						
	b. A cyclist moving with 10 km/h on a straight road						
	c. A ball falling freely under gravity						
	d. A satellite orbiting E	Earth at constant spe	ed				
4.	4. A stone is dropped from the top of a tower and reaches the ground in 5seconds. What is the						
	height of the tower? (g	$g = 10 \frac{m}{c^2}$)					
	a. 100 m	b. 125 m	c. 150 m	d. 200 m			
5. If a body travels in a semicircular path of radius 7 m, what is the displacement of the body?							
	a. 11 m	b. 14 m	c. 22 m	d. Zero			
2							
υ.			in 50 seconds. What is				
	a. 0 m/s	b. 4 m/s	c. 8 m/s	d. 10 m/s			

7. A body is thrown upwards with a velocity of 50 m/s. After how many seconds will it return to the						
same point? (g = 1	same point? (g = 10 m/s 2)					
a. 5 s	b. 10 s	c. 15 s	d. 20 s			
8. A car moving with a velocity of 20 m/s is stopped by applying brakes in 4 seconds. What is the						
distance it covers b	stance it covers before stopping?					
a. 30 m	b. 40 m	c. 60 m	d. 80 m			
9. Two cars start from the same point. Car A moves with constant velocity 20 m/s, and Car B						
accelerates from rest at 2 m/s². After how many seconds will both cars have travelled the same						
distance?						
a. 10 s	b. 20 s	c. 30 s	d. 40 s			
10. An object moves 10 m north, then 10 m east, and finally 10 m south. What is the total						
displacement?						
a. 10 m	b. 20 m	c. 10√2 m	d. √200 m			

