Worksheet: 4	Subject: - Physics	Class: - IX	Teacher: - Mrs. Kuljeet Kaur
Name:	Class & Sec:	Roll No.	
2.	FILL IN T		
1.	The magnitude of average velocity equal to the average speed. Ans: may or may not be		
2.	Distance travelle Ans: average spec		oy elapsed time gives
3.		d in 4 sec.	wer with zero velocity, Γhe height of the tower
4.	A ball thrown vertically upwards return to its starting point in 4s. If $g=10\mathrm{m/s^2}$, its initial speed was Ans : 20 m/s		
5.	When negative ac velocity Ans: decreases	celeration ac	ts on a moving body its
6	A stone is let to	fall from a	building of height 30m

The ratio of heights fallen by it after 2s and 3s is

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Ans: 4:9

 If a car starts at rest and accelerates uniformly, the distance it travels is proportional to the of the time it travels.

Ans : square

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8. The speed-time graph of a moving object is a straight line parallel to the time-axis. It means the speed is

Ans: uniform

If a car is going northward and the driver jams on its brakes, the direction of its acceleration is

Ans: south

 A body moving with a uniform speed along a circle has velocity.

Ans: variable

3. TRUE/FALSE

1. A particle is known to be at rest at time t = 0. If its acceleration at t = 0 must be zero.

Ans : False

Magnitude of acceleration is constant in the rotating motion along a circular path.

Ans : True

3. The equation $s = ut + \frac{1}{2}at^2$ with the usual notation is vectorial in nature.

Ans : True

 Magnitude of displacement can be equal to or lesser than distance.

Ans : True

 In a journey, numerical value of displacement ≤ distance.

Ans : True

If particle speed is constant, acceleration of the particle must be zero.

Ans : False

A particle moving with a uniform velocity must be along a straight line.

Ans : True

 A particle in one dimensional motion with positive value of acceleration must be speeding up.

Ans : False

9. Area under velocity-time graph shows displacement.

Ans : True