TEST

1.   A car moves in a straight line from rest at t=0. It accelerates 2m/s^2. Solve the following table

Time	2 sec		10 min
Velocity		10 m/s	

2.   FILL IN THE BLANKS

a)   A car starts at rest and travel a distance 20 m in 1 sec .The car average speed is _____

b)   Tractor moving with 18 km/h is _____ then car moving with 1500 m/min

c)   Distance is a _____quantity while displacement is a _____ quantity

3.   A train accelerates from 36 km/h to 54 km/h in 10 sec. Find its acceleration

4.   A particle is moving in a circle of diameter 20 m. What is its distance and displacement as per the table given below

| Rounds	Distance	Displacement
1		
1.5		
2		
2.5		

5. A train starts from rest and accelerate uniformly at the rate of 5 m/s² for 5 sec. Calculate the velocity of train in 5 sec.

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6. Anand leaves his house at 8.30 A.M for his school. The school is 2 km away and classes start at 9.00 A.M. If he walks at a speed of 3 km/h for the first kilometre, at what speed should he walk the second kilometre to reach just in time?

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7. An object moves along a straight line with an acceleration of 2 m/s2. If its initial speed is 10 m/s, what will be its speed 2 s later?

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8. The velocity -time graph of SUV is given below.
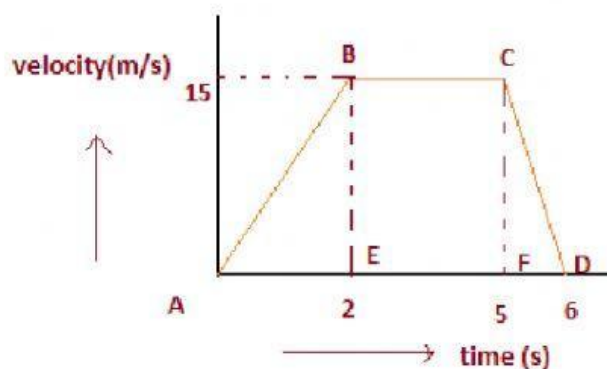
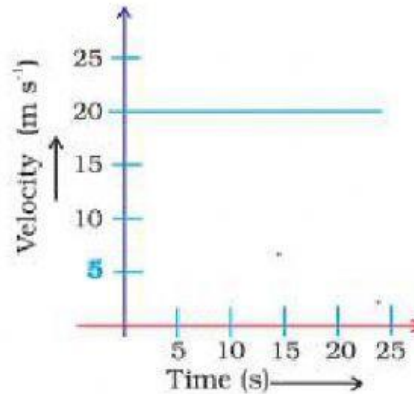What is the distance travelled by the SUV is first 2 seconds?

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9.   The velocity-time graph shows the motion of a cyclist. Find

   (i)   its acceleration   _____

   (ii)   its velocity_____

   (iii)   the distance covered by the cyclist in 15 seconds   _____

10.   An object travels 20 m in 2 s and then another 16 m in 2 s. What is the average speed of the object?

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