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TYPES OF MOTION – Through tables

Uniform Motion

(Velocity remains constant)

No. of	Velocity /	Distance travelled	Acceleration (a)
hours	Speed	from the starting point	
1	10 km/hr	10 km	a = 0
2	10 km/hr	20 km	a = 0
3	10 km/hr	30 km	a = 0
4	10 km/hr	40 km	a = 0
5	10 km/hr	50 km	a = 0

Uniformly Accelerated Motion

(Velocity changes, but by equal amounts)

No. of	Velocity /	Distance travelled	Current velocity –
hours	Speed	from the starting point	previous velocity
1	10 km/hr	10 km	0
2	20 km/hr	30 km	20 – 10 = 10
3	30 km/hr	60 km	30 – 20 = 10
4	40 km/hr	100 km	40 – 30 = 10
5	50 km/hr	150 km	50 – 40 = 10

Non-Uniformly Accelerated Motion

(Velocity changes by any amount randomly)

No. of	Velocity /	Distance travelled	Current velocity –
hours	Speed	from the starting point	previous velocity
1	10 km/hr	10 km	0
2	70 km/hr	80 km	70 – 10 = 60
3	20 km/hr	100 km	20 – 70 = -50
4	90 km/hr	190 km	90 – 20 = 70
5	40 km/hr	230 km	40 – 90 = -50