• Assume a one-to-one scale where time is measured in seconds and displacement is measured in m with South considered positive.



Time taken	Average velocity
Time intervals (not	Average velocity
instants) when the	during t=[0,7]s
object is at rest	
Initial displacement	Average velocity
	during t=[7,20]s
Final displacement	Average velocity
	during t=[21,30]s
Change in	Instantaneous
displacement	velocity at t=7.5 s
Distance travelled	Instantaneous
	velocity at t=20 s

• Assume a one-to-one scale where time is measured in seconds and displacement is measured in m with **left** considered positive.



Time taken	Average velocity	
Time intervals (not	Average velocity	
instants) when the	during t=[0,7]s	
object is at rest		
Initial displacement	Average velocity	
	during t=[7,20]s	
Final displacement	Average velocity	
	during t=[21,30]s	
Change in	Instantaneous	
displacement	velocity at t=7.5 s	
Distance travelled	Instantaneous	
	velocity at t=20 s	

• Assume a one-to-one scale where time is measured in seconds and displacement is measured in m with **up** considered positive.



Time taken	Average velocity
Time intervals (not	Average velocity
instants) when the	during t=[0,5]s
object is at rest	
Initial displacement	Average velocity
	during t=[5,12]s
Final displacement	Average velocity
	during t=[20,30]s
Change in	Instantaneous
displacement	velocity at t=7.5 s
Distance travelled	Instantaneous
	velocity at t=20 s

• Assume a one-to-one scale where time is measured in seconds and displacement is measured in m with **west** considered positive.



Time taken	Average velocity	
Time intervals (not	Average velocity	
instants) when the	during t=[0,7]s	
object is at rest		
Initial displacement	Average velocity	
	during t=[7,20]s	
Final displacement	Average velocity	
	during t=[21,30]s	
Change in	Instantaneous	
displacement	velocity at t=9 s	
Distance travelled	Instantaneous	
	velocity at t=20 s	

- 5. Describing Motion Using a Displacement versus Time Graph
- Assume a one-to-one scale where time is measured in seconds and displacement is measured in m with **east** considered positive.



Time taken	Average velocity	
Time intervals (not	Average velocity	
instants) when the	during t=[0,5]s	
object is at rest		
Initial displacement	Average velocity	
	during t=[10,20]s	
Final displacement	Average velocity	
	during t=[15,30]s	
Change in	Instantaneous	
displacement	velocity at t=4s	
Distance travelled	Instantaneous	
	velocity at t=15 s	