If You Know and Unit Tables for Acceleration and Velocity

Physical Science and Technology

If you know	And you need	Use this equation:	Units will be:
Final velocity (v_f) , initial velocity (v_i) , and time (t)	Acceleration (a)	$a = (v_f - v_i) \div t$	m/s ²
Acceleration (a), final velocity (v_f) , initial velocity (v_i)	Time (t)	$t = (v_f - v_i) \div a$	S
Acceleration (a), time (t), initial velocity (v _i)	Final velocity (v _f)	$v_f = v_i + (a \times t)$	m/s
Acceleration (a), time (t), final velocity (v _f)	Initial velocity (v _i)	$v_i = v_f - (a \times t)$	m/s

Variable	Units	Question	
Acceleration (a)	meters / second ²	What was the acceleration? How quickly did	
	m/s^2	accelerate?	
Final velocity (v _f)	meters/ second	What was the final velocity? After how quickly	
	m/s	will it be going?	
Initial velocity (v _i)	meters/second	What was the initial velocity? How fast was going	
	m/s	at first?	
Time (t)	seconds	How long? How much time?	
	s		

If You Know	You Can Find	By Using
Time, Displacement	Velocity	v = d / t
Time, Velocity	Displacement	d = v * t
Displacement, Velocity	Time	t = d / v

Variable	Stands For	Units	Questions
d	Displacement	m (meters)	How far? What was
			the displacement?
t	Time	s (seconds)	How long? How
			much time? How
			many seconds?
V	Velocity	m/s (meters per	How fast? What
		second)	was the velocity?