Acceleration Worksheet

Acceleration is how fast an objects's velocity changes.

Avei	rage acceleration	= <u>change</u>	in velocity time	a=	<u>V final - V start</u> t
TO WR	ITE THE EQUATION	I EACH TIME	AND PLUG IN T	HE N	JESTIONS. BE SURE JMBERS AND UNITS H CORRECT UNITS.
1. A car	increases it's veloci	ty from 0 m/s	to 14 m/s in 2 se	conds	
2. A bic	ycle rider increases l	nis speed fron	n 5 m/s to 15 m/s	in 10	seconds.
3. A rac	ing car's velocity is i	ncreased from	n 44 m/s to 66m/s	s in 11	seconds.
4.A trair period.	n moving at a velocit	y of 15 m/s is	accelerated to 24	1 m/s (over a 12 second
5 Anla	ne starting from rest	is accelerated	d to its takeoff ve	locity (of 75 m/s during a 5
second	•	4000.014100		.comy	

6. A ball rolling down a hill for 9 seconds accelerates from 3 m/s to 34.5 m/s.