Na	me: Period:	
Sh	Show all your work!	
1.	A person walks 13 km in 2.0 h. What is the person's speed in km/h and m/s?	
2.	*Sentences* What would happen to the speed if it took him 4.0 hours instead?	
3.	Light from the sun reaches Earth in 8.3 min. The speed of light is $3.00x10^8$ m/s. How far (in kilometers) is Earth from the sun?	
4.	*Sentences* Jupiter is about 5 times further from the sun. How long would light from the sun take to reach Jupiter?	
5.	A car is driven 800 km west in 1.0 h and then 700 km east in 2.0 h. East is the positive direction. What is the average velocity and speed of the car in km/h?	
6.	*Sentences* Why are the average speed and average velocity values different in question 5?	
7.	A car is traveling at a constant speed of 90 km/h. It is passed by a truck moving at 105 km/h. From the point of view of the car, what is the truck's speed?	
8.	An Indy-500 race car's velocity increases from 4.0 m/s to 36.0 m/s over a 4.0s period. What is its acceleration?	
9.	A bus is moving at 25.0 m/s. The driver steps on the brake and the bus stops in 3.0s. What is the acceleration of the bus?	
10	 A golf ball rolls up hill on the green. a. If it starts with a velocity of 2.0 m/s and is accelerates at a rate of -0.5 m/s², what is its velocity after 2.0s? b. If the acceleration occurs for 6.0s, what is the final velocity? 	