Dr. Joshi's Conceptual Physics Worksheet: Acceleration

1.	Define each of the following. a. speed
	b. velocity
	c. acceleration
2.	A car travels at a constant speed of 65 miles per hour. What is its acceleration?
3.	A kid sits on a carousel that is constantly spinning. Is the kid accelerating?
4.	A runner is running at 4.5 m per second. Within one second, she speeds up to 6.5 m per second. Determine her acceleration in meters per second per second.
5.	A car goes from exactly zero miles per hour to 60.0 miles per hour in 10.0 seconds. a. Determine the acceleration of the car in miles per hour per second.
	b. Determine the acceleration of the car in miles per second per second.
	c. Determine the acceleration of the car in meters per second per second.