Name: Hour: Date:		
1 10		
	Speed and Velocity Problems	
<b>Directions</b> : Read the following questions. For each, make a list of information that is given, chose the correct equation, and then solve the problem. <b>Show your calculations!</b>		
1.	A bicyclist travels for 1.5 hours at an average speed of 32 kilometers per hour. How far does the bicyclist travel in that time?	
	t = 1.5 hours d = ? v = 32 k/h	
2.	In a boat race, Dan drove his motorboat over the 1000 – meter course from start to finish in 40 seconds. What was Dan's average speed during the race?	
	t = 40  s d = 1000  m v = ?	
3.	It takes Serina 0.25 hours to drive to school. Her route is 16 km long. What is Serina's average speed on her drive to school?	
	t = d = v = v = v	
4.	Sound travels much faster in water than air. It takes 4.2 seconds for the sound of an explosion to travel underwater to a diver 6,006 meters away. What is the speed of sound in water?	
	t = d = v = v = v	
5.	Suppose a bear runs for 200 seconds and covers 950 meters. What is the bear's speed?	
	t = d = v = v = v	

6.	If the bear were running at a speed of 8.3 m/s, how far will it travel in 10.0 hours?
	t = 10.0 hours (be sure to change into seconds) d = ? v = 8.3 m/s
7.	An average tree sloth moves with a speed of 0.743 meters per second. How long does it take a sloth, moving at this speed, to travel 22.3 meters?  t = d = v =
8.	The cheetah can run a distance of 274 meters in 8.65 seconds at its top speed. What is the cheetah's top speed? $t = \\ d = \\ v = $
9.	The maximum speed on the interstate in some western states is 75 miles per hour, or 121 kilometers per hour. What is the distance, in kilometers, traveled by a car moving at the max speed for 3 hours? $t = d = v = v$
10.	Find the velocity in meters per second of a baseball thrown 38 meters from third base to first base in 1.7 seconds. $t = d = v = v$