

	SPEED
dista	culate the time required to drive from Windsor to Toronto and back if th nce between Windsor and Toronto is 350 km and you drive an average d of 95 km/h.
	nercial airplanes travel at speeds close to 1000 km/h, how far does a pla l in 30 seconds?
	il can slime its way about 14.2 m in and hour. at is the snail's speed in m/s?

1.2 - Speed.notebook



HOMEWORK

SPEED PROBLEMS

1. Solve for the missing values in the following table.				
Trial	Distance	Time	Speed	
1	75.0 m	6.65 s		
2	3050 km		85 km/h	
3		15.2 s	12.2 m/s	
4	250 m	13.5 s		
5		6.65 h	75 km/h	
6	450 m		8.85 m/s	

2. Calculate the speed of sound, given that a clap of thunder is heard by an observer 1.5 km away, 4.6 s after the lightning that produced it is seen.

- 3. How far is the moon from the Earth, given that radio waves traveling at the speed of light (3.0 x 10⁸ m/s) take 1.28 s to reach the moon?
- 4. How long does it take light from the sun to reach Earth if it must travel 1.5 x 10⁸ km at the speed of light (3.0 x 10⁸ m/s)?
- 5. In 1997, Thrust SSC, the world's fastest jet-engine car, traveled 604 m at an average speed of 341 m/s.
 - a. What length of time did this take?
 - b. Convert 341 m/s into km/h.