Name _____

Section A: The Speed Formula Unit: One-Dimensional Kinematics

Level 1

Prerequisites: none

Points to:

$$d = vt$$

Objectives:

- Be able to solve this formula for *d*, *v* and *t*.
- Always write the appropriate units for distance, speed, and time.

distance = speed * time d = vt

Symbol	Quantity	SI Unit	
d	Distance	Meters	
v	Average Speed	Meters per second	Note: even though it is a <i>v</i> , this is speed, not velocity. We will learn the difference later.
t	Time	seconds	

A.1 You walk a distance of 6 meters down the hall, in a time of 2 seconds. What is your speed?						
Looking For	Formula					
Already Know						
Answer in a complete sentence with unit:						

A.2 You walk a distance of 12 m in a time of 3 s. What is your speed?

A.2 Tou walk a distance of 12 in in a time of 3 s. what is your speed:				
Looking For	Formula			
Already Know				
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Answer in a complete sentence with unit:				
1				

A.3 You drive a distance of 140 m in a time of 20 s. What is your speed? (Note: Sometimes, I won't give you the table, I still expect you to write all of the information you would include in the table.)

A.7 You move a distance of 32 m with a speed of 4 m/s. How much time does it take?

Already Know

Answer in a complete sentence with unit:

A.8 You move a distance of 30 m in a time of 15 s. What is your speed?

A.1 v = 3 m/s

A.2 v = 4 m/s

A.3 v = 7 m/s

A.4 d = 30 m

A.5 d = 80 m

A.6 t = 5 s

A.7 t = 8 s

A.8 v = 2m/s