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.

Section A: The Speed Formula Name _____

distance = speed * time

$$d = vt$$

Symbol	Quantity	SI Unit	
d	Distance	Meters	
v	Average Speed	Meters per second	Note: even though it is a *v*, 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?

Looking For	Formula
Already Know	
Answer in a complete sentence *with unit*:	

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.)

Section A: The Speed Formula Name _____

A.4 You move at a speed of 3 m/s for a time of 10 seconds. What is your distance?

Looking For	Formula
Already Know	
Answer in a complete sentence *with unit*:	

A.5 You move at a speed of 4 m/s for a time of 20 s. What is your distance?

Looking For	Formula
Already Know	
Answer in a complete sentence *with unit*:	

A.6 You drive a distance of 200 m at a speed of 40 m/s. How much time does it take?

Looking For	Formula
Already Know	
Answer in a complete sentence *with unit*:	

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

Looking For	Formula
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?

Section A: The Speed Formula Name _____

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