REVIEW and **REINFORCEMENT Measuring Motion**

	KEY CONCEPTS		
	 A change in position in a certain amount of time is motion. Speed is the rate at which an object moves. 	Velocity is speed in a given direction.	2
Build	ding Vocabulary Skills: Relating Te	erms	
For each are relat	n group of terms, write a sentence that ted.	it shows how the terms	
1. positi	ion: time: motion		
2. speed	l: motion		*****
3. speed	l: distance: time		
4. veloc	rity: speed		
5. time	: distance: direction: velocity		

At a Snail's Pace: Applying the Main Ideas

A snail moves at an average speed of 5 centimeters per minute (5 cm/min). Individual snails, however, may move at somewhat faster or slower speeds. To prove this point, three snails decide to have a race. They agree to race the length of a meter stick from 0 cm to 100 cm. They line up the meter stick from east to west on a smooth patch of grass. At the finish line, they place some tasty lettuce leaves for the winning snail to eat.

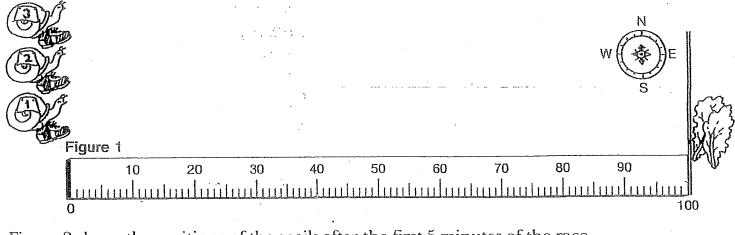


Figure 2 shows the positions of the snails after the first 5 minutes of the race. Figure 3 shows their positions after the second 5 minutes.

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(G)/ ⁴	Figure 2	(B) A	Figure 3
	30		

1. Determine the distance that each snail traveled between 10:05 AM and 10:10 AM.

	Snail 1:
	Snail 2:
	Snail 3:
2.	Calculate the average speed for each snail.
	Snail 1:
	Snail 2:
	Snail 3:
	What is each snail's velocity during this time period?
•	Snail 1:
	Snail 2:
	Snail 3:
	A person watching the race noticed that at exactly 10:05 AM an ant wandered onto the snails meterstick. The ant crawled onto the 94-cm mark and reached the 50-cm

mark at exactly 10:06 AM. What was the velocity of the ant?