Wednesday, November 14/12 Science 10

Announcements

Miramichi Hoop Classic - Friday PM

- 1. Activity: Adding Displacement Vectors Page 424 Past Due
- 2. Velocity and Average Velocity
- 3. Worksheet: Distance, Displacement, Ave. Speed and Ave. Vel. HW P3 and P4
- 4. Topics Chapter 11 Test
- 5. Chapter 11 Review Page 442 #1, 2, 4, 5, 9, 10 HW P3 and P4
- 6. Explore an Issue Athletes on the Edge Page 430
- 7. Unit 3 Chapter 12



$$V_{AV} = \frac{\Delta dR}{L}$$

$$V_{AV} = \frac{12.00 \text{ km}}{2.0 \text{ h}}$$

$$V_{AV} = +1.0 \frac{\text{km}}{\text{h}} \quad \text{(W5)}$$

Chapter 11-Test Topics -> physical quantities le/ time, distance, velicity, speed, volume, position, displacement, etc -> (types) of physical quantities Vector Licection Size Velocity acceleration position Speed distance displacement time directions negative W S 4 positive, EN right -> position: = > loo Acre Wood = D map of musts -> displacement: Ad Q= 22-01 -> Vector diagrams O scale | lom = O draw body of the account to Scale O held arrowhead 1) label vector -> Head-to-foot/Head to-tail > 3 Methods for finding DdR 1. scale diagram 2. algebraic _ 3. combined _ 4. combine 3 combined method > sketch > formula -> velocity (speed + direction) V= AZ > herry velocity

Chapter 11 Review

Understanding Concepts

- 1. Explain what is meant by a vector quantity, and give two examples.
- **2.** Explain what is meant by a scalar quantity, and give two examples.
- **4.** Identify the following quantities as distance, position, displacement, speed, or velocity:
 - (a) Nicole lives 1.60 km southwest of her school.
 - (b) Su-Lin averages 18 km/h when she rides her bike to school.
 - (c) Brad ran 15 km in the Terry Fox Run.
 - (d) Kim jogged 1.0 km [S] and then 2.5 km [W].
 - (e) Jean encountered a 45-km/h north wind on his bike trip.
- 5. Describe two ways of communicating vector quantities, other than with words.
- 9. If Doug leaves home on a trip to the lake that takes him to a position 80 km [W] of home, what is his displacement? Do you know the distance that he travelled? Explain.
- **10.** A volunteer, delivering fliers from home, walks down the street 200 m [W], back up the other side 350 m [E], and then returns home.
 - (a) What is the volunteer's resultant displacement?
 - (b) Use the full algebraic method to prove your answer in (a).
 - (c) Use a scale vector diagram to prove your answer in (a).