Announcements:

- Inflatable structures are going away today!
- Last day to turn in A+CAD drawings for derby racer is Wed. 11/9 (no more class time!)
- Contracts, syllabi & safety glasses are required as of NOW. (Safety tests too...)

Motion:

distance – total length of the path of a moving object

displacement – shortest length between an object's start and end – includes a direction

speed – the distance an object travels in a certain amount of time

velocity – the displacement of an object in a certain amount of time – includes a direction

acceleration – rate of change in an object's velocity

speed	velocity
· distance · no direction · speed = distance ÷ time (usually $\frac{\text{meters}}{\text{second}}$) $s = \frac{d}{t}$ units → $\frac{m}{s}$	· displacement · includes direction · velocity = displacement ÷ time (usually $\frac{\text{meters}}{\text{second}}$) + direction $v = \frac{d}{t}$ units → $\frac{m}{s}$ (+ direction)

Bregar drives 400 meters north (straight line) in 80 seconds. What is his velocity?