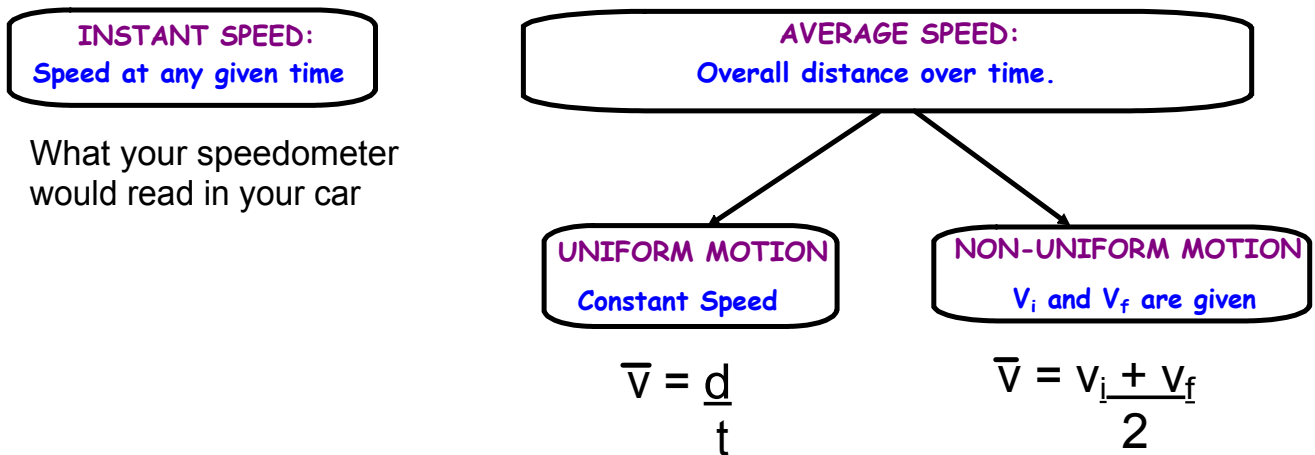


Instant vs. Average Speed Activity

Length of room:

Times (average):

Instant vs. Average Speed Activity



During the previous activity...,
were the average speed and the instant speed equal at any time?

Instant vs. Average Speed

1) Pat gets his first progress report. He starts from rest and accelerates to 20 km/hr towards the window. What's Pat's average speed?

Compare Pat's average speed to his instant speed.

1a. Instant and average velocity.notebook

2) Chris accelerates uniformly from 15 m/s E to 27 m/s E in 3 seconds.
What's Chris' average velocity?

- 3) Jeremy accelerates from rest to 10 m/s in 2 seconds.
- What is Jeremy's average velocity
 - What is Jeremy's distance after 2 seconds?

Think...

1) For uniform motion, instant velocity is about the same as average velocity

True

False

2) Is this also the case for non-uniform motion?

Yes

No

3) Vasyi's donkey walks 40 m east at 10 m/s, and 40 m west at 20 m/s.
What is his average velocity? (Careful! It is NOT 15 m/s)