

# Physics 2311 – Physics I, Week 2

Dr. J. Pinkney

## Outline for Day W2,D2

Attendance

Error Prop. Example (area of block)

Motion in 1-dimension

Position, Distance, displacement,  
Speed, velocity

Homework (Due Fri-Mon)

Ch. 2 Prob. 2,3,5-7,14,23-27,35-38,53-56

Notes: Hwk Ch. 1 mean= 8.7/10, checked 5,24,MQ2,3  
Astro Club tonight 9 pm SA116.  
Tutoring on Thursdays 6-8 SA116.

# In-class quiz (#2)

- 1) Find the Area of a rectangular plate with  $L=21.3\pm0.2$  cm,  $W=10.2\pm0.1$  cm, using the “adding the fractional errors” method to determine the errors.
- 2) Find the same area using the correct “add fractional errors in quadrature” approach to determine the errors.

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## Motion in 1-Dimension

(See “Mo and Flo” examples on black board.)

# Physics 2311 – Physics I, Week 2

## Dr. J. Pinkney

### Outline for Day W2,D3

Motion in 1-dimension (cont.)

Average speed, velocity

Instantaneous speed, velocity

Acceleration

Equations of uniform acceleration

Homework (Due Mon)

Ch. 2 Prob. 2,3,5-7,14,23-27,35-38,53-56

Notes: Try practice quizzes online.

Quiz 1 on Monday. Mostly Ch 1, and part of Ch. 2 (definitions of  $l$ ,  $d$ ,  $s$ ,  $v$ , etc).

## Week 2 (cont.)

### Motion in 1-Dimension

More “Mo and Flo” examples on black board.

Instantaneous speed,  $s$

Instantaneous velocity,  $\mathbf{v}$  or  $\mathbf{v}_{\text{inst}}$

Graphing  $x$  vs  $t$

$\mathbf{v}_{\text{inst}}$  is slope of  $x$  vs  $t$