

**Probability & Statistics      Friday, August 30, 2024**

No class Monday (Labor Day) — class resumes  
on Tuesday

PA #2 — due today

Quiz/Test next Friday

if have not done so, please send your hours  
available for this class

Official: 10 — 11:30 hrs

$\frac{9:50 - 11:15}{11:30}$  → watch for 1 hr.

Units

hr  $\rightarrow$  (min)  $\rightarrow$  sec

250  $\frac{\text{miles}}{\text{hr}}$   $\rightarrow$  in/sec  
length  
time

miles  $\rightarrow$  ft  $\rightarrow$  in

$$250 \left[ \frac{\text{miles}}{\text{hr}} \right] \frac{5280 \text{ ft}}{1 \text{ mile}} \frac{12 \text{ (in)}}{1 \text{ ft}} \frac{1 \text{ hr}}{60 \text{ min}} \frac{1 \text{ min}}{60 \text{ (sec)}}$$


15840000 in/hr

4400 [in/sec]

Pg 87 QR # 73

3000 miles

A  — 12 gallons tank 40 mpg \$2.55/gallon

B  ← 20 gallon tank 30 mpg

$$12 \text{ [gallon]} \cdot 2.55 \text{ [\$ / gallon]} = \$30.60$$

$$20 \text{ [gal]} \cdot 2.55 \frac{\$}{\text{gall}} = \$51.00$$

1 lb per \$12

$$12 \frac{\$}{\text{lb}} \times \frac{1 \text{ lb}}{16 \cancel{\$}}$$

$$= .75 \frac{\$}{\text{lb}}$$

2.99 for 2/3oz

$$\frac{2.99 \cancel{\$}}{2/3 \text{ oz}}$$

$$= 4.485 \frac{\$}{\text{oz}}$$

↑  
\$1/oz

\$ 2.99 for 2/3oz → \$/lb

$$\frac{2.99 \cancel{\$}}{2/3 \cancel{\text{oz}}} \times \frac{16 \cancel{\text{oz}}}{1 \text{ lb}} = \underline{\underline{71.76}} \left[ \frac{\$}{\text{lb}} \right] \checkmark$$