(29) Recall

100 m dash

100.0 m etc.

$\Rightarrow$ 100.00 m

$3 + \frac{58}{60} + \frac{5}{3600}$ min $= 3.968055$

$3 + \frac{58}{60} + \frac{20}{3600}$ min $= 3.97222$

$\frac{\Delta t}{t} = \frac{.00417}{3.968055}$ $\times 100$

$= .105\%$

$\frac{\Delta d}{d} = .00105$

use average of the two times and don't round and you should get the answer in Bob

$\Delta d = (.00105)\ 5280\text{ ft}$

$= 5.5\text{ ft}$

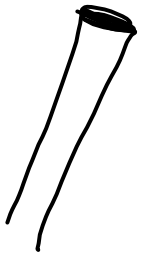
HRW Ch2 due Tues. Wednesday Science Fair TPCA

Q 8, 13

11, 18, 27, 30, 31, 36, 42, 45, 57, 60, 61, 68

52 mph

$$a = \frac{\Delta v}{\Delta t}$$



$$a = \frac{dv}{dt}$$

$$\int_{t_0}^{t} a\, dt = \int_{v_0}^{v} dv$$

a is constant

$$a\int_{t_0}^{t} dt = v\Big|_{v_0}^{v} = v - v_0$$

$$a\Delta t + v_0 = v \qquad \text{or } V = V_0 + at$$