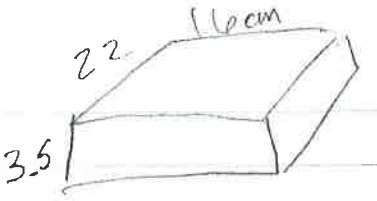
10/9/14

Styrofoam Block

(SAMPLE MEDIA)
MEDIUM SAND



$A = 22 \times 11\,cm$ $V = 1232\,cm^3$

$mass = 25g$ $D = \frac{m}{V}$ $D = \frac{25}{1232}$

$D_{styro} = .02\,g/cm^3$

Sediment

$A = 10 \times 16$ thick. 1.7cm

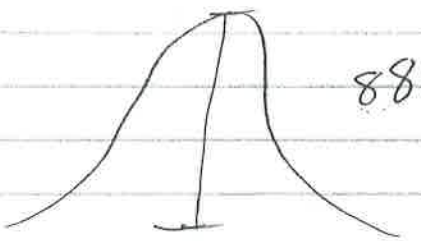
$mass = 355g$

$D_{sed} = 1.3\,g/cm^3$

$$D_{Both} \quad \frac{25g + 355g}{V_{styro} + V_{sed}} = \frac{380g}{1504} = 0.25\,g/cm^3$$

---

mt. Everest



26mm/yr Avg- 2-12mm/yr

erosion rate:
12mm/yr

$\frac{12mm}{yr}$ $\frac{m}{1000mm}$

$\frac{.012m}{yr}$

$\frac{8800m}{.012m} =$

733,333 yrs. to erode to sea level!

UPLIFT RATE
~10 mm/yr