INT STD

#832 S 10,100 CPM   in 2cc distilled H2O

-.31 Bkg

(S+) 10,069 CPM

+ int std (200λ) — of $\frac{1}{2500}$ dose

T 19,156 CPM → this is corrected back to 2cc
since the 200λ std have caused some quenching

T' = 20,142

$T-S$ = -10,042 ← this activity is from the int std
the std is 2cc H2O + 200λ int std H2O
the counts corrected back to 2cc —
std 10,402 CPM (all due to int std)

$\frac{std \ T \quad 10,402}{subject \ T \quad 10,042}$ = 1.036.

$(S-t) \times 1.036 = 10,431$ CPM

$\frac{std \ cts}{subject \ counts} = \frac{10,402}{10,431} = 0.998 \times$ dilution factor of std.

0.998×25 ccc = 24,950 cc = Total Body Water

Convert to Kg H2O = 24.58 Kg

% H2O = $\frac{24.58}{46.36}$ = 53.02

% Fat 100 - $\frac{\% H2O}{0.72}$ = 100 - 73.64 = 26.36 %

Kg of Fat = 12.22 Kg

Lean Body Wt = 34.14 Kg