22

U: ΔT

G: $m = 30\,g$ Fe

$Q = 165\,cal$

$C = .11$

F: $Q = mc\Delta T$

$165 = (30)(.11)\Delta T$

$\frac{165}{3.3} = \frac{3.3\Delta T}{3.3}$

$50^\circ C = \Delta T$

$\Delta T = \frac{Q}{mc}$

Dec 20-7:47 AM

23

U: m of H_2O

G: $Q = 240$

80° } $\Delta T = 12^\circ$

68° }

$C = 1$

F: $Q = mc\Delta T$

$240 = m(1)(12)$

$\frac{240}{12} = \frac{12m}{12}$

$20 = m$

$m = \frac{Q}{(C)(\Delta T)}$

$= \frac{240}{1(12)}$

Dec 20-7:58 AM

24

U: C Al

G: $m = 50\,g$

$Q = 735\,cal$

$\Delta T = 70^\circ C$

$Q = mc\Delta T$

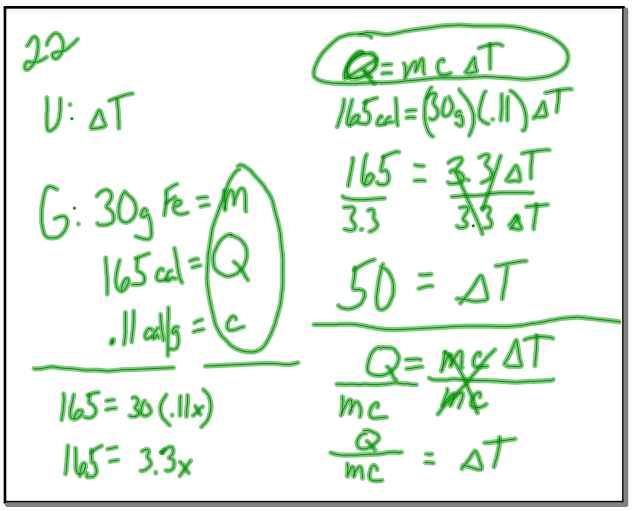
$735 = (50)(70)c$

$\frac{735}{3500} = \frac{3500c}{3500}$

$c = \frac{Q}{m\Delta T}$

$c = .21$

Dec 20-8:03 AM



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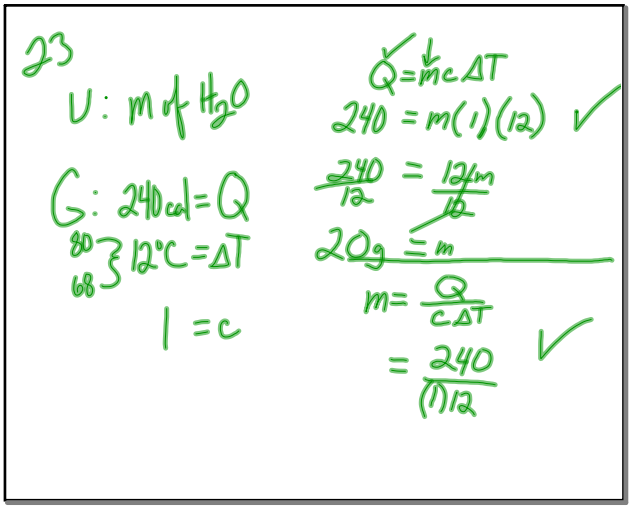

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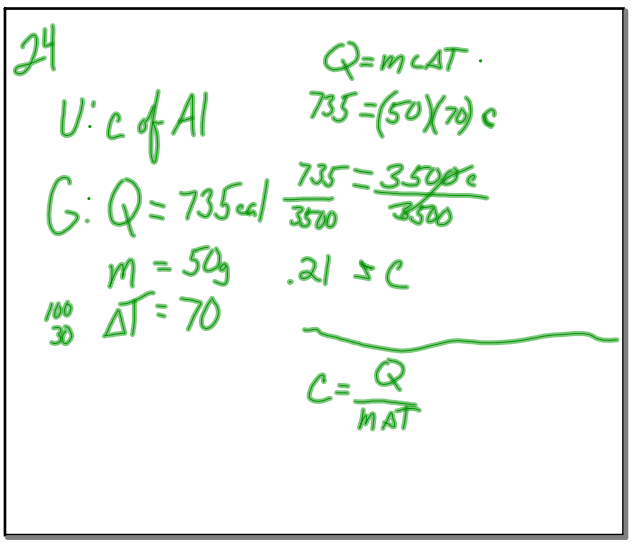

Dec 20-8:48 AM