Chem 1020
Chemical equations worksheet

Balance the following chemical equations by using the smallest whole-number coefficients possible.

1. __ Co + __ O_2 → __ Co_2O_3

2. __ $LiClO_3$ → __ LiCl + __ O_2

q = 1.03 kJ

Part B: q = mol$_{(H2O)}$ x ΔH_{fusion}
q = 25.0 g H_2O x 1 mol H_2O / 18.02 g H
q = 8.32 kJ

Part C: : q = $\Delta T \cdot m \cdot c_{p\ water}$
q = (100.0°C – 0.0°C) x 25.0

x 6.00 kJ / 1 mol H_2O

g H_2O x 4.184 J x 1 kJ