Bacl2.2420(s) - 3 > Ba(12.42065) + H20(g)

If you start with 1.45 g of barium chloride dihydrate, how many grams of barium chloride monohydrate could be produces in this thermal decomposition reaction?

Ballz: Ba: 137.3 H20, H: 1.008x2 Ballz-2420; 244.232 C1: 35.45x2 O 16.00 Ballz. H20: 226, 216

226,216 g Baclz + H20 2 1 mul Baclz + H20 | 244,232 g Baclz · 2420 = 1 mul Baclz · 2420

1 mol Back = 2420= 1 mol Back = 0420

1,45 g Ba Cl2 · 2420 x 1 mol Ba Cl2 · 2420 x 1 mol Ba Cl2 · 420 = 244,232 g Ba Cl2 · 2420 x 1 mol Ba Cl2 · 2420 = 20.005937 mol Ba Cl2 · 420 (0.00594 mol)

0.005937 mal Ballz. 420 x 226,216 g Ballz. 420 = 1.34 g Ballz. 420

Steps:

- 1 Convert mass of dihydrate to moles dishydrate (use FW)
- 2 Convert moles dihydrate to moles monohydrate (use equation)
- 3 Convert moles monohydrate to mass monohydrate (use FW)