Nice Problem! Thanks for making my brain work for the first time in 24 hours.

Remember
$$P_AV_A=n_ART$$
, so $[A]=n_A/V_A=P_A/RT$
Similarly $[B]=n_B/V_B=P_B/RT$
 $[C]=n_C/V_C=P_C/RT$
 $[D]=n_D/V_D=P_D/RT$

Hence,

$$Kc = \frac{[C]^{c}[D]^{d}}{[A]^{a}[B]^{b}} \text{ for } aA + bB = cC + dD$$

Substituting the first paragraph's equations into the above:

$$Kc = \frac{[P_C / RT]^c [P_D / RT]^d}{[P_A / RT]^a [P_B / RT]^b} = \frac{P_C P_D}{P_A P_B} \frac{(RT)^a (RT)^b}{(RT)^c (RT)^d}$$

But
$$Kp = \frac{P_C P_D}{P_A P_B}$$
, so

$$Kc = Kp \frac{(RT)^{a} (RT)^{b}}{(RT)^{c} (RT)^{d}}$$

Isolate Kp:

$$Kp = K_{C} \frac{(RT)^{c} (RT)^{d}}{(RT)^{a} (RT)^{b}} = K_{C} \frac{(RT)^{c+d}}{(RT)^{a+b}}$$

$$Kp = K_C \left(RT\right)^{(c+d)-(a+b)}$$

$$Kp = Kc \left(RT \right)^{\Delta n}$$