1. Consider the following system at equilibrium.

$$MgCO_3(s) \rightleftharpoons MgO(s) + CO_2(g) \qquad \Delta H = +ve$$

Which of the following changes will result in a decrease in the mass of magnesium oxide when equilibrium is re-established?

(a)   addition of carbon dioxide
(b)   addition of magnesium carbonate
(c)   increase in temperature
(d)   addition of a catalyst