$$N_2 + 3H_2 \rightleftharpoons 2NH_3$$

This is an exothermic reaction. If the temperature was reduced which of the following would happen.

- 1. a greater yield of ammonia would be produced.
- 2. the position of equilibrium would move to the left.
- 3 the rate at which the ammonia is made will slow down.
- 4. the rate at which ammonia is made will speed up.