Suppose we choose *one* card at random from a deck of 52 playing cards.

$$S = \{A\clubsuit, 2\clubsuit K\clubsuit, A\blacklozenge, 2\blacklozenge, K\blacklozenge, A\blacktriangledown, 2\blacktriangledown, K\diamondsuit, A\spadesuit, 2\spadesuit, K\spadesuit\}$$

 $= \{J \clubsuit, J \blacklozenge, J \blacktriangledown, J \spadesuit, Q \clubsuit, Q \blacklozenge, Q \blacktriangledown, Q \blacktriangledown, K \blacklozenge, K \blacktriangledown, K \spadesuit, A \clubsuit, A \blacklozenge, A \blacktriangledown, A \spadesuit\}$

$$K = \text{ event of king} = \{ K \clubsuit, K \blacklozenge, K \heartsuit, K \spadesuit \}$$

$$H = \text{event of heart} = \{A \lor, 2 \lor, \dots, K \lor \}$$

$$J =$$
event of iack or better

$$Q = \text{event of queen} = \{Q \clubsuit, Q \blacklozenge, Q \heartsuit, Q \spadesuit\}$$