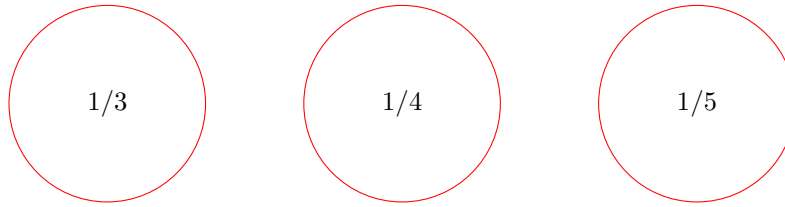Suppose three biased coins are each flipped once. The probabilities of each coin getting Heads are shown below. Which of the following pairs of events are independent?

(a) $\{HHH, HHT\}$ and $\{HHT, HTT, THT, TTT\}$

(b) $\{HHH\}$ and $\{TTT\}$

(c) $\{HHH\}$ and $\{TTT, TTH, THT, HTT\}$

(d) $\{HHT, HTH, THH, HHH\}$ and $\{TTT, TTH, THT, HTT\}$

(e) $\{TTT\}$ and $\{HHT, HTH\}$

(f) $\{HHH\}^c$ and $\{TTT, HHH\}^c$

(g) $\{HHH\}^c$ and $\{TTT\}^c$

(h) $\{HHH, TTT\}$ and $\{HHH, TTT\}$

(i) $\{HHH\}$ and $\{HHH, HHT, HTH, THH, TTH, THT\}$

(j) $\{HHH\}$ and $\{HHH, TTT\}$

(k) $\{HHH, TTT\}$ and $\{HHH, TTT, THT, HTH\}$

(l) None of these