

Suppose a sample space  $S = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$  has equiprobable outcomes. Which one of the following events is independent of the event  $\{2, 8\}$  ?

- (a)  $\{1, 3, 5, 8, 9\}$
- (b)  $\{2, 4, 5, 8\}$
- (c)  $\{1, 3, 5, 7, 9\}$
- (d)  $\{1, 5, 9\}$
- (e)  $\{3, 6, 7, 9\}$
- (f)  $\{3, 5, 6, 7, 9\}$
- (g)  $\{1, 4, 6, 7\}$
- (h)  $\{4\}$
- (i)  $\{4, 5\}$
- (j)  $\{1, 3, 4, 5, 6, 7, 9\}$
- (k)  $\{9\}$
- (l) None of these