

An experiment has sample space $S = \{a, b, c, d\}$. The probabilities of events $\{a, b\}$ and $\{a, c\}$ are each $1/6$. The events $\{c, d\}$ and $\{b, d\}$ are independent. What is the probability of event $\{d\}$?

- (a) $25/36$
- (b) $11/36$
- (c) $1/6$
- (d) $5/6$
- (e) $1/36$
- (f) $2/3$
- (g) $1/3$
- (h) $1/2$
- (i) $1/18$
- (j) $1/4$
- (k) $1/27$
- (l) None of these