

Suppose an experiment has sample space  $S = \{a, b, c, d, e, f, g, h\}$  with equiprobable outcomes. How many events in  $S$  occur when the experiment is conducted once?

- (a) 128
- (b) 1
- (c) 256
- (d) 2
- (e)  $\binom{8}{2}$
- (f)  $\binom{8}{1}\binom{8}{7}$
- (g) 0
- (h) 8
- (i) 7
- (j) None of these

**Solution:**  $2^7 = 128$ .