Suppose one fair die is rolled. What is the probability its value is 3 or 4 but not 6, given that it is 4 or 5 but not 1 ?

(a) 1/2

(b) 1/3

(c) 1/4

(d) 1/5

(e) 1/6

(f) 1/8

(g) 2/3

(h) 3/4

(i) 1

(j) 0

(k) 5/8

(l) 3/8

(m) None of these