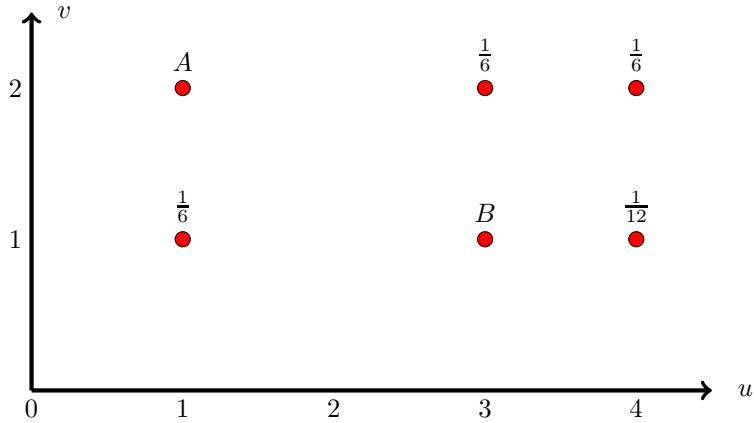


If independent random variables  $X$  and  $Y$  have joint probability mass function  $p_{X,Y}(u,v)$  shown below, then what is the probability that  $XY = 3$  ?



(a) None of these

(b)  $1/48$

(c)  $1/2$

(d)  $1/3$

(e)  $1/4$

(f)  $2/3$

(g)  $3/4$

(h)  $1/6$

(i)  $1/24$

(j)  $5/12$

(k)  $5/6$

(l)  $1/9$

(m)  $7/12$