

$X \setminus Y$	$Y=0$	$Y=1$	$Y=2$
$X=0$	7/6844	189/17110	1071/34220
$X=1$	483/34220	315/3422	5031/34220
$X=2$	1771/34220	3243/17110	543/3422

b)

To define the marginal probability mass function of  $X$  we should add values in rows

$X \setminus Y$	$Y=0$	$Y=1$	$Y=2$	
$X=0$	7/6844	189/17110	1071/34220	<b>371/8555</b>
$X=1$	483/34220	315/3422	5031/34220	<b>2166/8555</b>
$X=2$	1771/34220	3243/17110	543/3422	<b>13687/34220</b>

To define the marginal probability mass function of  $Y$  we should add values in columns

$X \setminus Y$	$Y=0$	$Y=1$	$Y=2$
$X=0$	7/6844	189/17110	1071/34220
$X=1$	483/34220	315/3422	5031/34220
$X=2$	1771/34220	3243/17110	543/3422
	<b>2289/34220</b>	<b>5007/17110</b>	<b>2883/8555</b>

<b>X \ Y</b>	<b>Y=0</b>	<b>Y=1</b>	<b>Y=2</b>