

13	(a)	$\frac{1}{12} + \frac{1}{4} + p + 3p = 1$ $p = \frac{1}{6}$ $(2,3) \quad (3,2) \quad (3,3)$ $\frac{1}{6} \times \frac{1}{2} + \frac{1}{2} \times \frac{1}{6} + \frac{1}{2} \times \frac{1}{2}$ $\frac{5}{12}$	M1 A1 M1 M1 A1 [5]	 soi. Allow M1 for any two correct pairs and no incorrect pairs or for all three correct pairs and at most one incorrect pair All correct and added, ft their p .
13	(b)	$\frac{1}{2}(1 - 0.02)$ $= 0.49$	M1 A1 [2]	