1 <sup>(a)</sup>	Mel (supported)	B1	Mel with reference to greatest number of throws	
(b)	$\frac{2}{9}$	M1 A1	selects overall total and multiplies P(point up)×P(point down) eg $\frac{50}{150} \times \frac{100}{150}$ oe (accept $\frac{14}{45} \times \frac{31}{45}$ or $\frac{27}{80} \times \frac{53}{80}$ or $\frac{9}{25} \times \frac{16}{25}$ ) for $\frac{2}{9}$ oe	

2 <sup>(a)</sup>	D	B1	cao			
(b)	В	B1	cao			
(c)	Shown	М1 М1	for number of green counters, eg $12 - (3+1+2) = 6$ OR for $\frac{3}{12}$ oe or $\frac{1}{12}$ oe or $\frac{2}{12}$ oe linked to the appropriate colour for $1 - ("\frac{3}{12}" + "\frac{1}{12}") (= \frac{8}{12})$ or $"\frac{2}{12}" + \frac{"6"}{12} (= \frac{8}{12})$ OR for method to find $\frac{2}{3}$ of 12, eg. $12 + 3 \times 2 (= 8)$	This is awarded for a correct first step This is awarded for a fully correct method from which the correct answer of		
		C1	for correct conclusion supported by accurate figures, eg $\frac{8}{12} = \frac{2}{3}$	$\frac{2}{3}$ can be found Sight of $\frac{8}{12}$ gets M2		
			or $\frac{2}{3}$ of $12 = 8$ and number of yellow + green = $2 + 6 = 8$			

3	(a)	cross at ½	B1	Cross (or mark) at ½	Accept any mark near to ½ if the intention is clear; do not accept if any additional marks are shown
	(b)	cross at 0	B1	Cross (or mark) at 0	Accept any mark near to 0 if the intention is clear; do not accept if any additional marks are shown