

3(a)	$\frac{1}{6}$				[1]
3(b)	$\frac{3}{6} = \frac{1}{2}$				[1] Mark awarded regardless of cancelling down
3(c)	The dice is likely biased as would expect 100 sixes				[1] Accept it could have happened by chance
4(a)	Colour	Blue	Red	Green	[1] Probability for red $\left(1 - \frac{1}{3} - \frac{1}{6}\right)$
	Probability	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{6}$	
4(b)	$180 \times \frac{1}{3} = 60$				[1]
4(c)	Outcome due to chance				[1]
5	$P(H,T,H) = 0.5 \times 0.5 \times 0.5 = 0.125$ $P(T,T,T) = 0.5 \times 0.5 \times 0.5 = 0.125$				[1] Calculation of the event probabilities
	Ben is incorrect, the likelihood of both events is equal.				[1] Statement of why ben is incorrect
6	Sonya is most likely to be the closest to the true probability because she did the most trials (120), compared to Clive and Lucy (30 and 60, respectively).				[1] Comment must be linked to number of repeats / sample size.

END