



Q	Answer	Marks
1	a) even chance, impossible, likely b) 0.65	4
2	a) discrete b) continuous c) continuous d) discrete	2
3	0.35	2
4	a) 11/30 b) yes, expected about 10 sixes but got 22 c) 110	4
5	a) 2 3 4 5 / 3 4 5 6 / 4 5 6 7 b) 1/4 c) 1/2	4
6	a) 36 b) 15	3
7	a) 0.2 b) 60	3
8	A only) 3, 9 A and B) 6, 12 B only) 2, 4, 8, 10 outside) 1, 5, 7, 11	3
9	a) 3/20 (= 6/40) b) 31/40	3
10	a) P(late) = 0.1 on each pair of branches, P(on time) = 0.9 on the second day branches b) 0.81	4
11	a) not replaced, so the second probabilities depend on the first counter b) 4/10, 6/10; 3/9, 6/9; 4/9, 5/9 c) 2/15	4
12	a) 13, 5, 7, 5 b) 1/6 c) 5/18	4

Full worked solutions, written out by hand, are on the solutions sheet for this topic.