Binomial Distribution – 2021 AS Nov S1

1. Nov/2021/Paper_9709/52/5

day	s.	
(a)	Find the probability that, in a 10-day period in October, fewer than 3 days will be wet.	[3]
(b)	Find the probability that the first wet day in October is 8 October.	[2]
(c)	For 4 randomly chosen years, find the probability that in exactly 1 of these years the first in October is 8 October.	wet day [2]

In a certain region, the probability that any given day in October is wet is 0.16, independently of other