4	То д	ain a place at a science college, students first have to pass a written test and then a practical test.
	a see	a student is allowed a maximum of two attempts at the written test. A student is only allowed cond attempt if they fail the first attempt. No student is allowed more than one attempt at the tical test. If a student fails both attempts at the written test, then they cannot attempt the practical
	first	probability that a student will pass the written test at the first attempt is 0.8. If a student fails the attempt at the written test, the probability that they will pass at the second attempt is 0.6. The ability that a student will pass the practical test is always 0.3.
	(a)	Draw a tree diagram to represent this information, showing the probabilities on the branches. [3]
	<b>(b)</b>	Find the probability that a randomly chosen student will succeed in gaining a place at the college. [2]

(c)	Find the probability that a randomly chosen student passes the written test at the first attempt given that the student succeeds in gaining a place at the college. [2]