1. A survey was taken and the the number of people in each of the catorgories is given in the table. A person is selected at random. Compute the following probabilities.

a) $P(C|G) = \dfrac{65}{165}$

b) $P(E^C|A) = \dfrac{15 + 45}{70} = \dfrac{60}{70}$

	A	B	C	total
E	10	20	30	60
F	15	25	35	75
G	45	55	65	165
total	70	100	130	300

2. Use the tree to answer these questions. You do not need to simplify to a decimal answer. These questions will be graded right or wrong so be carefull.

(a) $P(T|R) = \dfrac{\frac{3}{7} * \frac{8}{29}}{\frac{3}{7}} = \dfrac{8}{29}$

(b) $P(G|Y) = \dfrac{\frac{4}{7} * \frac{8}{17}}{\frac{3}{7} * \frac{11}{29} + \frac{4}{7} * \frac{8}{17}}$

(c) $P(B) = \dfrac{3}{7} * \dfrac{10}{29} + \dfrac{4}{7} * \dfrac{3}{17}$