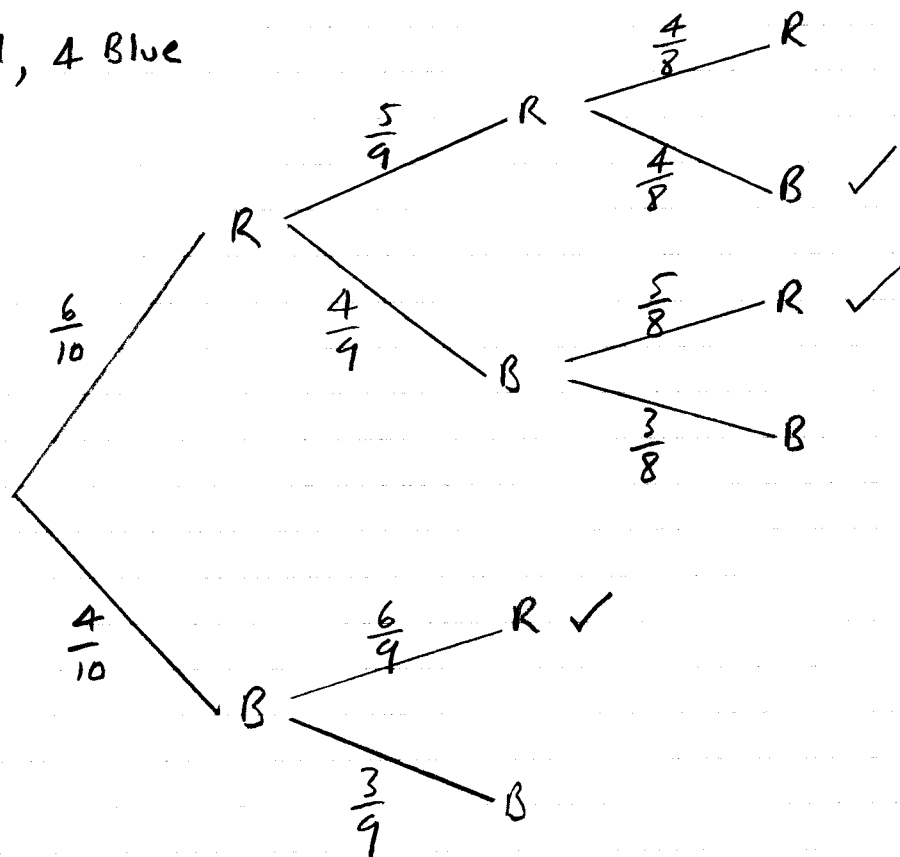


4) i) 6 Red, 4 Blue



ii) $P(\text{one Blue disc}) = P(RRB) + P(RBR) + P(BR)$

$$= \frac{6}{10} \times \frac{5}{9} \times \frac{4}{8} + \frac{6}{10} \times \frac{4}{9} \times \frac{5}{8} + \frac{4}{10} \times \frac{6}{9}$$

$$= \frac{120}{720} + \frac{120}{720} + \frac{24}{90}$$

$$= \frac{120}{720} + \frac{120}{720} + \frac{192}{720}$$

$$= \frac{432}{720}$$

$$= \frac{3}{5}$$