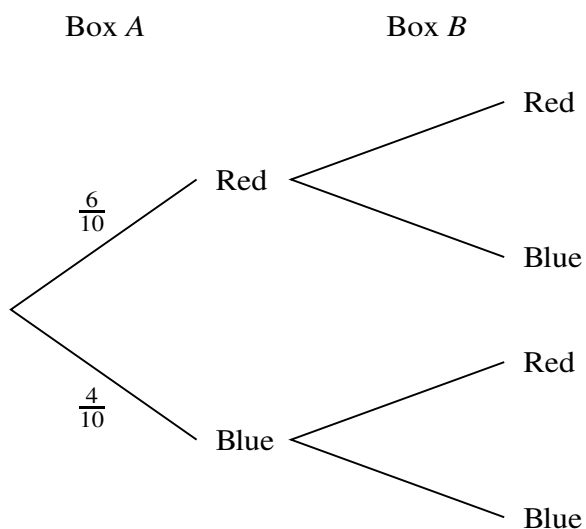


- (a) Complete the tree diagram below, giving the remaining four probabilities in terms of x . [3]



- (b) Show that the probability that both balls chosen are blue is $\frac{4}{x+10}$. [2]

[illegible]

It is given that the probability that both balls chosen are blue is $\frac{1}{6}$.

- (c) Find the probability, correct to 3 significant figures, that the ball chosen from box A is red given that the ball chosen from box B is red. [5]

[illegible]