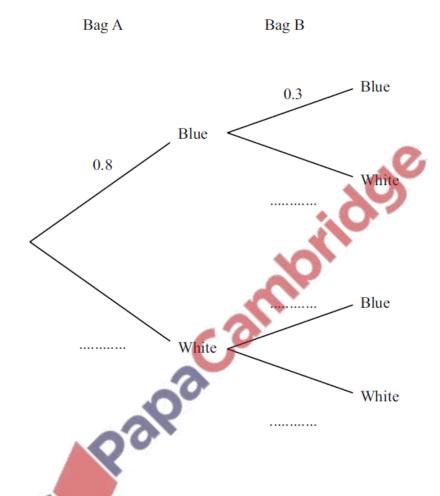
## <u>Probability – 2025 Specimen IGCSE 0580 Math</u>

1. Specimen/2025/Paper\_01/No.17

Two bags, A and B, each contain blue beads and white beads only. The probability of taking a blue bead at random from bag A is 0.8. The probability of taking a blue bead at random from bag B is 0.3.

(a) Complete the tree diagram.



(b) A student takes one bead at random from bag A and one bead at random from bag B.

Find the probability that both beads are white.

.....[2]

[2]

## 2. Specimen/2025/Paper\_04/No.7

On any day the probability that it rains is  $\frac{1}{3}$ .

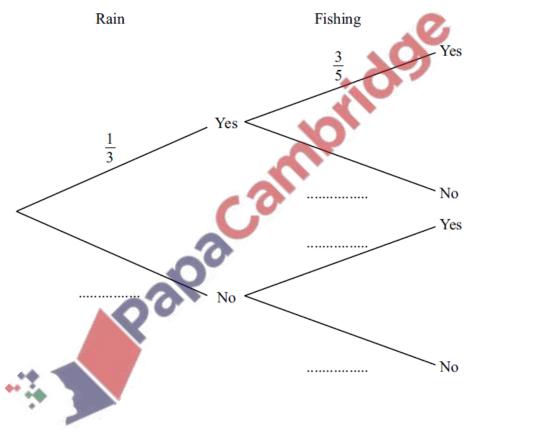
When it rains the probability that Amira goes fishing is  $\frac{3}{5}$ .

When it does not rain the probability that Amira goes fishing is  $\frac{3}{4}$ .

(a) In a period of 60 days on how many days is it expected to rain?

.....[1]

(b) Complete the tree diagram.



(c) Find the probability that on any day Amira goes fishing.

.....[3]

[2]