# Tree Diagrams $\underline{A N D}=$ multiply the probabilities $\underline{\boldsymbol{O R}}=$ add the probabilities 

e.g. 5 boy's names and 6 girl's names are in a hat.

Find the probability that in two draws a boy's name and a girl's name are chosen.

(ii) In a raffle 30 tickets are sold and there are 2 prizes. What is the probability that someone buying 5 tickets wins exactly one prize?

(iii) What is the probability of winning at least one prize?

$$
\begin{aligned}
P(\geq 1 \text { prize }) & =1-P(0 \text { prizes }) \\
& =\underline{9}
\end{aligned}
$$

Exercise 10D; odd

