**Conditional Probability Example**

When driving to the shops Rose passes through two sets of traffic lights.

If she stops at the first set of lights the probability that she stops at the second set of lights is 0.25.

If she does not stop at the first set of lights the probability that she stops at the second set is 0.35.

The probability that Rose stops at the first set of lights is 0.4.

* Draw and complete a probability tree diagram.
* Find the probability that when Rose next drives to the shops she will not stop at the second set of traffic lights.