

Exercise 1

Calc. : ✓

Sandro has four possible ways home from school.

From school he takes either a bus or a train. The probability that he will go by train is $\frac{3}{5}$.

If he goes by train, he completes the second part of the journey by walking or by getting a lift.

The probability that he gets a lift is $\frac{1}{4}$.

If he catches a bus, the second part of his journey can be complete by catching another bus or he can walk. The probability that he will walk is $\frac{7}{8}$.

1. Draw a tree diagram showing all of the possible outcomes of Sandro's journey from school. 3 marks

Using the tree diagram calculate the probability that Sandro:

2. Catches a bus from school and then walks 3 marks
3. Walks for part of his journey home 3 marks
4. Given that he walks the second part of the journey, what is the probability that he caught the bus? 3 marks