

Exercise 1Calc. : **X**

A company conducts a survey on the mode of transport used and time taken by employees to get to work.

The results of the survey are:

- $\frac{2}{3}$ of the employees use a bicycle.
- The remaining employees use a car.
- 10% of employees who use a bicycle take longer than 30 minutes.
- 50% of employees who use a car take longer than 30 minutes.

A company employee is selected at random.

Determine the probability that the employee takes longer than 30 minutes to get to work.

5 marks