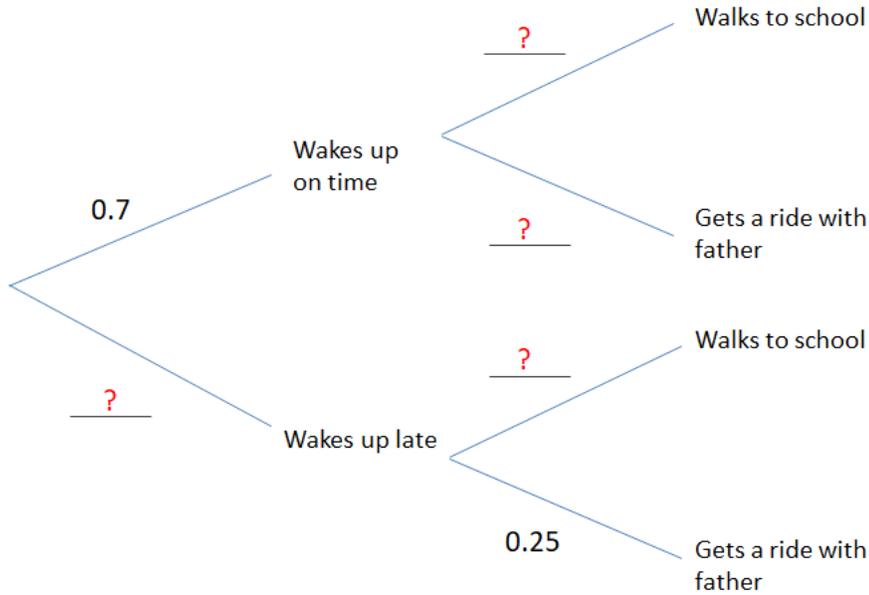


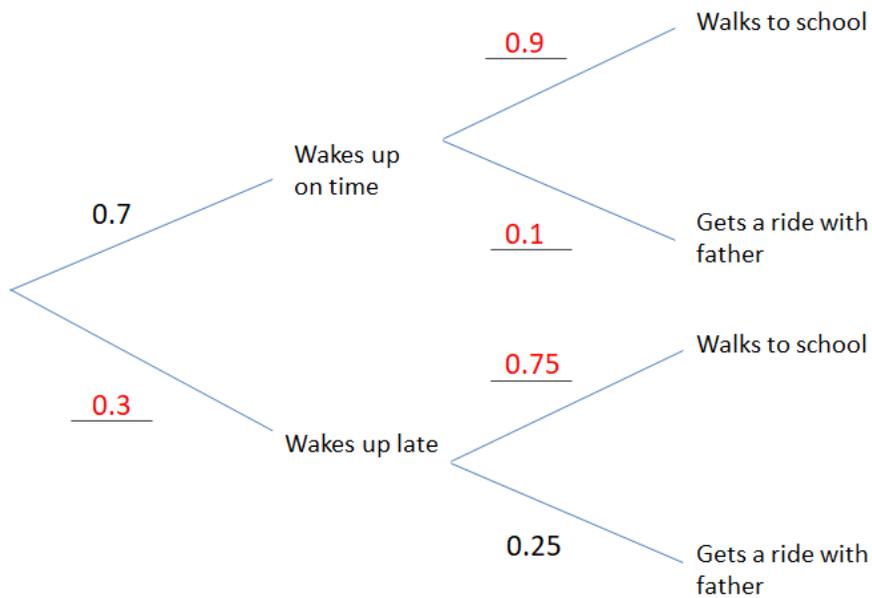
1. If Amanda gets up on time, the probability that she walks to school is 0.90. If Amanda gets up late, there is a 0.25 probability that she gets a ride with her father. The tree diagram below represents the probabilities of these scenarios. Amanda wakes up on time at a probability of 0.7.



- (a) Complete the tree diagram (3 marks)
- (b) Find the probability she walks to school (3 marks)

Mark scheme:

(a)



(A1)(A1)(A1) for each correct pair

(b) $(0.7)(0.9) + (0.3)(0.75)$
 $= 0.855$

(A1)(M1)
 (A1)