# Find probabilities from frequency trees 

Maths

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## Find probabilities from frequency trees

1. The frequency tree shows some information about men and women.


A person is randomly selected.
Find the following
a) $P(m a n)$
b) $P$ (man who is under 25)
c) P (person is over 25)

## Find probabilities from frequency trees

2. There were 80 deliveries to a factory in a week.

Deliveries are on time or late.
They can be accepted or rejected.

- 36 were late.
- 9 deliveries were rejected.
- 39 deliveries were on time and accepted.
a) Draw a frequency tree to present the information.
b) Calculate the following
(i) P (on time)
(ii) P(accepted)
(iii) P(accepted given that it was late)

Answers

## Find probabilities from frequency trees

1. The frequency tree shows some information about men and women.


A person is randomly selected.
Find the following
a) $P($ man $) \frac{101}{204}$
b) $P$ (man who is under 25) $\frac{38}{204}$
c) $P$ (person is over 25) $\frac{140}{204}$

## Find probabilities from frequency trees

2. There were 80 deliveries to a factory in a week.
Deliveries are on time or late.
They can be accepted or rejected.

- 36 were late.
- 9 deliveries were rejected.
- 39 deliveries were on time and accepted.
a) Draw a frequency tree to present the information.

b) Calculate the following
(i) P (on time) $\frac{44}{80}$
(ii) P (accepted) $\quad \frac{71}{80}$
(iii) P(accepted given that it was late) $\frac{32}{36}$

