	male	female
black	1	3
yellow	2	1
chocolate	1	1

Labrador puppies may be black, vellow or chocolate in colour. Some information about a litter of

Four puppies are chosen at random to train as guide dogs.

- (a) Determine the probability that exactly 3 females are chosen.

**(b)** Determine the probability that **at least** 3 black puppies are chosen.

- Determine the probability that exactly 3 females are chosen given that at least 3 black puppies
- are chosen.

(d) Explain whether the 2 events

'choosing exactly 3 females' and 'choosing at least 3 black puppies'

[3]

[3]

[3]

are independent events. [1]