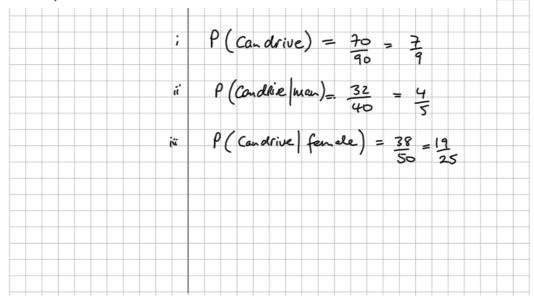
- **2.** The table shows information about a group of adults.
- Can drive
   Cannot drive

   Male
   32
   8
   40

   Female
   38
   12
   50

   can drive?
   70
   20
   90
- (i) A person is chosen at random from the group.
  - What is the probability that the person can drive?
- (ii) A man in the group is chosen at random. What is the probability that he can drive?
- (iii) Find the probability that a person chosen at random can drive, given that the person is a female.

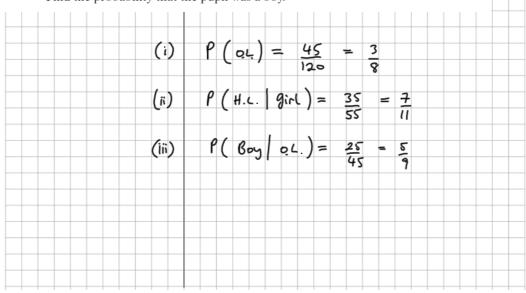


**4.** A school enters 120 pupils for the Junior Certificate maths exam.

The given table shows the details of the entries.

|  |       | Ordinary | Higher |     |
|--|-------|----------|--------|-----|
|  | Girls | 20       | 35     | 55  |
|  | Boys  | 25       | 40     | 65  |
|  |       | LLC.     | 20     | 100 |

- (i) Write down the probability that a pupil chosen at random is entered for Ordinary level.
- (ii) A pupil is chosen at random. This pupil is a girl.Find the probability that the girl was entered for Higher level.
- (iii) A pupil is chosen at random. The pupil was entered for Ordinary level. Find the probability that the pupil was a boy.



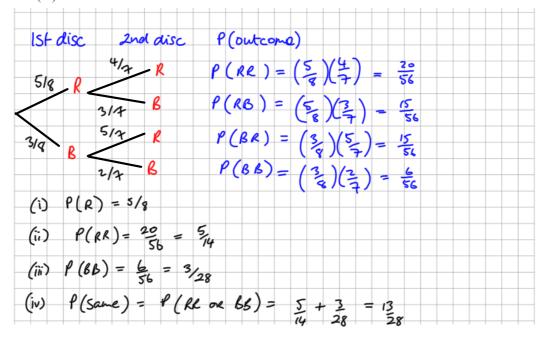
5. A bag contains 5 red discs and 3 blue discs.

A disc is taken from the bag and not replaced. A second disc is then taken from the bag. Find the probability that

- (i) the first disc is red
- (ii) the first 2 discs are red

8 Discs intotal

- (iii) the first two discs are blue
- (iv) both discs are the same colour.



**20.** The probabilities of events A, B and C are shown in the given Venn diagram.

Use the Venn diagram to find

- (i) P(B)
- (ii)  $P(A \cap C)$
- (iii) P(A|B)
- (iv) P(C|B)
- (v)  $P(A \cap C')$
- (vi)  $P(B|A \cap C)$ .

