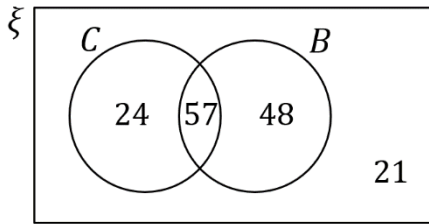


Probability and Two Set Venns

The Venn diagram shows information of 150 patients in a local surgery. They were asked if they took any medication for cholesterol (C) or blood pressure (B).

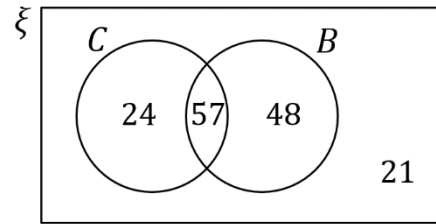


A patient is chosen at random.

- Work out the probability that a patient took neither medication.
- Work out the probability that a patient took cholesterol not but blood pressure medication.
- Given that the patient took blood pressure medication, what is the probability that they also took cholesterol medication?

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90 people in a sports club were surveyed. 19 play tennis and squash. 50 play tennis. 32 play squash.

- Represent this with a Venn diagram. One person is chosen at random.
- Work out the probability that the person chosen does not play tennis
- Work out the probability that the person chosen plays tennis or squash or both.
- Given that the person plays tennis, work out the probability that they also play squash.

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In a group of 40 children there are 19 who can swim and 16 who can ride a bike. There are 5 children who can swim and ride a bike.

- Draw a Venn diagram. A child is selected at random.
- Find the probability that this child cannot swim or ride a bike. Another child is selected at random.
- Given that this child can ride a bike, work out the probability that this child can swim.

In a group of 40 children there are 19 who can swim and 16 who can ride a bike. There are 5 children who can swim and ride a bike.

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