

Conditional probability from a two-way table

Maths

Mrs Dennett



Conditional probability from a two-way table

1. The two-way table shows the music students like best.

	Rock	Hip-Hop	Pop	Other	Total
Male	17	25	5	8	55
Female	30	15	25	5	75
Total	47	40	30	13	130

- a) What is the probability that two student picked at random like pop music?
- b) What is the probability that two students picked at random like rock music and one is Male and the other female?

2. The two-way table displays what year 7 and 11 students have at dinner time.

	Packed Lunch	School Dinners
Year 7	60	25
Year 11	30	55

- a) What is the probability that two students picked at random have school dinners?
- b) What is the probability that two students picked at random have the same type of dinner?



Answers



Conditional probability from a two-way table

1. The two-way table shows the music students like best.

	Rock	Hip-Hop	Pop	Other	Total
Male	17	25	5	8	55
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Total	47	40	30	13	130

- a) What is the probability that two students picked at random like pop music? $\frac{29}{559}$
- b) What is the probability that two students picked at random like rock music and one is male and the other female? $\frac{34}{559}$

2. The two-way table displays what year 7 and 11 students have at dinner time.

	Packed Lunch	School Dinners
Year 7	60	25
Year 11	30	55

- a) What is the probability that two students picked at random have school dinners? $\frac{632}{2873}$
- b) What is the probability that two students picked at random have the same type of dinner? $\frac{1433}{2873}$

