

Algebra II Honors 10 3 Two Ways Table

Lesson 128 | Algebra II | Two-way tables

<https://www.youtube.com/watch?v=vPggYSQYGAM>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

A survey: 7 students play sports and music, 13 sports only, 8 music only, 4 neither. Construct a two-way table; find $P(\text{music} \mid \text{sports})$.

02

A survey: 14 students play sports and music, 13 sports only, 7 music only, 4 neither. Construct a two-way table; find $P(\text{music} \mid \text{sports})$.

03

A survey: 7 students play sports and music, 4 sports only, 6 music only, 3 neither. Construct a two-way table; find $P(\text{music} \mid \text{sports})$.

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Name: _____ Date: _____ Show your reasoning.

04

A survey: 3 students play sports and music, 5 sports only, 4 music only, 4 neither. Construct a two-way table; find $P(\text{music} \mid \text{sports})$.

05

A survey: 7 students play sports and music, 10 sports only, 14 music only, 3 neither. Construct a two-way table; find $P(\text{music} \mid \text{sports})$.

06

A survey: 6 students play sports and music, 10 sports only, 13 music only, 5 neither. Construct a two-way table; find $P(\text{music} \mid \text{sports})$.

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- 01** A survey: 7 students play sports and music, 13 sports only, 8 music only, 4 neither. Construct a two-way table; find $P(\text{music} | \text{sports})$.

Rows sports/not sports and columns music/not music: [7,13]; [8,4]. Total 32. Conditional probability is both/sports total = $7/(7+13)=7/20$.

- 02** A survey: 14 students play sports and music, 13 sports only, 7 music only, 4 neither. Construct a two-way table; find $P(\text{music} | \text{sports})$.

Rows sports/not sports and columns music/not music: [14,13]; [7,4]. Total 38. Conditional probability is both/sports total = $14/(14+13)=14/27$.

- 03** A survey: 7 students play sports and music, 4 sports only, 6 music only, 3 neither. Construct a two-way table; find $P(\text{music} | \text{sports})$.

Rows sports/not sports and columns music/not music: [7,4]; [6,3]. Total 20. Conditional probability is both/sports total = $7/(7+4)=7/11$.

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04

A survey: 3 students play sports and music, 5 sports only, 4 music only, 4 neither. Construct a two-way table; find $P(\text{music} \mid \text{sports})$.

Rows sports/not sports and columns music/not music: [3,5]; [4,4]. Total 16. Conditional probability is both/sports total = $3/(3+5)=3/8$.

05

A survey: 7 students play sports and music, 10 sports only, 14 music only, 3 neither. Construct a two-way table; find $P(\text{music} \mid \text{sports})$.

Rows sports/not sports and columns music/not music: [7,10]; [14,3]. Total 34. Conditional probability is both/sports total = $7/(7+10)=7/17$.

06

A survey: 6 students play sports and music, 10 sports only, 13 music only, 5 neither. Construct a two-way table; find $P(\text{music} \mid \text{sports})$.

Rows sports/not sports and columns music/not music: [6,10]; [13,5]. Total 34. Conditional probability is both/sports total = $6/(6+10)=3/8$.