

Watch. Practice. Understand. | Lesson 128

Algebra II Honors 10 3 Two Ways Table

Watch the matching video: <https://www.youtube.com/watch?v=vPggYSQYGAM>

Practice focus: Two-way tables

Original extra practice matched to the listed lesson topic.

Name: _____ Date: _____ Show your reasoning and check units.

- 01** A class has 12 bus riders who play sports, 8 bus riders who do not, 6 walkers who play sports, and 14 walkers who do not. Make a two-way table with totals.

- 02** Using that class, find $P(\text{bus})$.

- 03** Using that class, find $P(\text{sports given bus})$.

- 04** Using that class, find $P(\text{bus or sports})$.

Worked answers | Lesson 128

Algebra II Honors 10 3 Two Ways Table

Watch the matching video: <https://www.youtube.com/watch?v=vPggYSQYGAM>

Practice focus: Two-way tables

Original extra practice matched to the listed lesson topic.

- 01** A class has 12 bus riders who play sports, 8 bus riders who do not, 6 walkers who play sports, and 14 walkers who do not. Make a two-way table with totals.

Rows bus/walk and columns sports/no sports: [12, 8, 20]; [6, 14, 20]. Column totals [18, 22, 40].

-
- 02** Using that class, find $P(\text{bus})$.

20 bus riders among 40 students: $1/2$.

-
- 03** Using that class, find $P(\text{sports given bus})$.

12 of the 20 bus riders play sports: $12/20 = 3/5$.

-
- 04** Using that class, find $P(\text{bus or sports})$.

$P(\text{bus}) + P(\text{sports}) - P(\text{both}) = (20 + 18 - 12)/40 = 13/20$.