

Two-Way Tables

1. A random group of students are polled about how they get to school. The results are summarized in the table below.

		School Transportation Survey			Total
		Walk	Ride Bus	Carpool	
Gender	Male	9	26	9	44
	Female	8	26	24	58
Total		17	52	33	102

a) Calculate the relative frequencies for the table above. The relative frequency is calculated by dividing each frequency by the total number of students. Write them as a percent in each cell of the table. Round to the nearest tenth of a percent.

b) What is the relative frequency for the Carpool category? Write a sentence interpreting this value in the context of school transportation.

c) What is the proportion of students who are female and walk to school? Write a sentence interpreting this value in the context of school transportation.

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1. A random group of students are polled about how they get to school. The results are summarized in the table below.

		School Transportation Survey			Total
		Walk	Ride Bus	Carpool	
Gender	Male	9 ≈ 8.8%	26 ≈ 25.5%	9 ≈ 8.8%	44 ≈ 43.1%
	Female	7 ≈ 6.9%	26 ≈ 25.5%	25 ≈ 24.5%	58 ≈ 56.9%
Total		16 ≈ 15.7%	52 ≈ 51.0%	34 ≈ 33.3%	102 100.0%

a) Calculate the relative frequencies for the table above. The relative frequency is calculated by dividing each frequency by the total number of students. Write them as a percent in each cell of the table. Round to the nearest tenth of a percent.

See the completed table above.

b) What is the relative frequency for the Carpool category? Write a sentence interpreting this value in the context of school transportation.

The relative frequency is 0.333, or 33.3%. Approximately 33.3% of the students surveyed use a carpool to get to school.

c) What is the proportion of students who are female and walk to school? Write a sentence interpreting this value in the context of school transportation.

The proportion is 0.069, or 6.9%. Approximately 6.9% of the students surveyed are female and walk to school.

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