

Frequency Table

- Categorical Data:**
- Numerical Data:**
- Marginal Frequencies:**
- Joint Frequencies:**
- Relative Probability:**
- Segment or Stack Bar Chart:**

1 In a survey in Springfield, citizens were asked whether they voted "yes" or "no" to build a new playground at the park. The table shows the results.

Vote	Male	Female	Total
Yes	35	50	85
No	10	17	27
Total	45	67	112

Of the yes votes, what percent (to the nearest percent) came from males?

2 In a survey in Springfield, citizens were asked whether they voted "yes" or "no" to build a new playground at the park. The table shows the results.

Vote	Male	Female	Total
Yes	35	50	85
No	10	17	27
Total	45	67	112

Of the female votes, what percent (to the nearest percent) were no votes?

3 The data below show the number of t-shirts sold at a high school.

	Navy	Red
Small	10	15
Medium	32	20
Large	8	3

What is the relative frequency of navy t-shirts sold?

4 The data below show the number of t-shirts sold at a high school.

	Navy	Red
Small	10	15
Medium	32	20
Large	8	3

What is the relative frequency of red t-shirts sold to navy t-shirts?

5 The data below show the number of t-shirts sold at a high school.

	Navy	Red
Small	10	15
Medium	32	20
Large	8	3

What is the relative frequency (to the nearest percentage) of the Medium sized t-shirts that are red?

6 Students at a middle school were asked what their favorite subject was and if they were in the 7th or 8th grade. The results are shown below.

	7 th	8 th	Total
English	32	10	42
History	12	24	36
Math	62	73	135
Science	17	45	62
Total	123	152	275

Which of the following statements is best supported by the data in the table?

- A) 8th grade students are most likely to prefer English as their favorite subject.
- B) Of the students whose favorite subject is history, there is a higher frequency of 7th graders than 8th graders.
- C) Of the students whose favorite subject is math, there is a lower frequency of 7th graders than 8th graders.
- D) 7th grade students are most likely to prefer Science as their favorite subject.



7 The table below shows the number of rich and poor people in Arkansas and Kansas.

State	Rich	Poor
Arkansas	402	610
Kansas	375	427

What percentage (to the nearest percent) of people in Arkansas are rich?



8 The table below shows the number of rich and poor people in Arkansas and Kansas.

State	Rich	Poor
Arkansas	402	610
Kansas	375	427

Of the people surveyed, what is the relative frequency that are poor?

9 College students were surveyed if they were Math or Science majors and if they used an iPad for class. The results are shown below.

Major	Yes iPad	No iPad
Math	200	150
Science	320	100

What percentage of students use an iPad for their class work?

10 College students were surveyed if they were Math or Science majors and if they used an iPad for class. The results are shown below.

Major	Yes iPad	No iPad
Math	200	150
Science	320	100

What percentage of students who major in Math do not use an iPad?

1

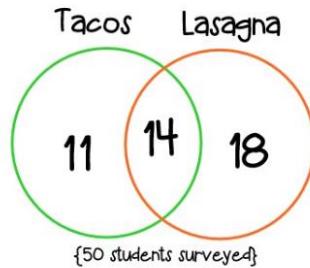
One hundred 8th-grade students were asked which sport they prefer among football, baseball and basketball. The following two-way table shows the results of the survey.

Sport	Girls	Boys	Total
Football	15	10	25
Baseball	20	15	35
Basketball	15	25	40
Total	50	50	100

- Identify two trends in the table.
- How many more 8th graders voted for basketball than football?
- How many more girls like baseball than boys?

2

The math team was asked to vote for which dinner they would like for their banquet. Construct a two-way table for the information shown in the Venn Diagram.



What will the math team be having for dinner at their banquet?

3

Two hundred students in a summer camp voted for the location of a field trip.

	Park	Museum	Aquarium	Total
Girls	20	30	50	100
Boys	40	20	40	100
Total	60	50	90	200

construct

- a relative-frequency two-way table for the whole table.
- a relative-frequency two-way table for the rows.
- a relative-frequency two-way table for the columns.
- Which relative-frequency two-way table would you use to show the percentages of boys versus girls who voted to go to the park? Explain why.

Frequency and Interval Charts: