

AP Statistics
The Titanic

The following 2-way table shows the distributions of class and survival status of the 2201 people on board the Titanic during its fateful voyage.

	First	Second	Third	Crew	Total
Alive	203	118	178	212	711
Dead	122	167	528	673	1490
Total	325	285	706	885	2201

a) Calculate the following:

- What percent of the people on the Titanic died?
- What percent of the people were surviving crew?
- *What percent of the survivors were First class?
- *What percent of First class survived?

b) Calculate the conditional distributions for class based on the condition of survival:

	First	Second	Third	Crew	Total
Alive	203	118	178	212	711 100%

	First	Second	Third	Crew	Total
Dead	122	167	528	673	1490 100%

- c) Construct a graphical display that shows the association between “class” and “survival”. Write a few sentences describing the association between class and survival status.

The following 2-way table breaks down the level of education versus gender for a random sample of 1810 citizens in the town of Podunk:

	Not High School Graduate	High School Graduate*	College Graduate	Total
Male	318	603	165	1086
Female	212	402	110	724
Total	530	1005	275	1810