

1. Eloise surveyed the students in her cafeteria and found that 38 males agree with the new cafeteria rules while 70 do not. There were 92 females surveyed and 41 of them agree with the new cafeteria rules. Construct a two-way table summarizing the data. (Example 1)

| | Agree with Rules | Do Not Agree with Rules | Total |
|---------|------------------|-------------------------|-------|
| Males | 38 | 70 | 108 |
| Females | 41 | 51 | 92 |
| Total | 79 | 121 | 200 |

2. The two-way table shows how some students get their news. Find and interpret the relative frequencies of students in the survey by row. (Example 2)

| | TV | Internet | Total |
|-----------------------|----------------------------|----------------------------|----------|
| 7 th grade | 13; $\frac{13}{62} = 20\%$ | 49; $\frac{49}{62} = 80\%$ | 62; 100% |
| 8 th grade | 20; $\frac{20}{88} = 22\%$ | 68; $\frac{68}{88} = 78\%$ | 88; 100% |
| Total | | | |

About 80% of students get their news from the Internet.

relative frequency = ratio%