Reading Guide #3(12,13),6,7

12. 32/607 overall 48,5% are female. However (#2) 33% of blue-eyed students are female, (1436) 4490 of brown-eyed student are female and (12/18) 6790 of 6/4/0-eyed students are female.

13. Not independent (associated) because it seems blue-eyed students.

Students are less likely to be female than other colors.

6. What does it mean for two variables to have an association or be independent?

It I variables are associated it means

that one variable may be affecting the other while
independence means they do not affect each other.

7. In the Step-by-Step section (fish consumption and prostate cancer), the two way table shows
there are more men with prostate cancer who had fish as a moderate part of their diet (209)
than men who seldom or never ate fish (14). However, this does not necessarily mean that
eating more fish is associated with a higher rate of prostate cancer. Look over the section
carefully and describe what additional comparisons were made in this example that supported

the possibility that eating more fish could be associated with a lower rate of prostate cancer.

They looked at the percent of men with prostate cancer for each of the the Fish consumption cotegories.

It shows men who are at least a small a mount of fish had a slightly lower proportion of Prostate (ancer (~7%) compared to men who are no fish (~11%)

Problem #1, 19

1. C. a lower percentage of boys signed up than girls

- 19. a. 59.9% 115/192
 - b. 14.1% 27/192
 - c. 18.3% ²¹/115
 - d. 10.9% ²¹/₁₉₂
 - e. 77.8% ²¹/₂₇

In Your World Worksheet - Use for discussion purposes but answers are here

- 1a. 7 teens (on average) died per day in 2010
 - b. 77% of teens use seatbelts (lowest of all age groups)
 - c. 23% of teens don't use seatbelts.
- 2. While not wearing seatbelts is not causing the accidents, the fact that fewer teens are wearing seatbelts makes them more likely to die in an accident. 56% of those who were killed did not have their seatbelts buckled.
- 3. Males are even less likely to wear seatbelts and their death rate is almost double that of females. I would like to know why they aren't wearing them? Is the higher death rate do to less seatbelt use, or because they tend to be riskier drivers?

More Practice With Two-Way Tables

https://emathinstruction.com/wp-content/uploads/2014/11/CCAlg1-U10L5-Two-Way-Frequency-Tables.pdf

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Homework: Two Way Frequency Table Wksht