Example 1

BYU's sports team is playing the University of Utah in a game this Saturday. Divide the members of the class according to which team they would like to see win, and then by gender. Record the data in a two-way table, and then answer the following questions. Round any decimals to the hundredths place, and round any percentages to the nearest whole number.

Teams

| | | 104/113 | | |
|-------|--------|---------|------|--------|
| | | BYU | Utah | Totals |
| denas | Female | 9 | le | 15 |
| 2 | Male | 8 | 7 | 15 |
| | totals | 17 | 13 | 30 |

a) What fraction of BYU supporters are women?

ers are women?

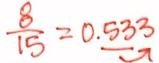
b) What fraction of women are BYU supporters?

c) What percent of <u>Utah supporters</u> are men?



d) Write the ratio of students that want Utah to win compared with the total number of students as a decimal.

e) What percent of men want BYU to win the game?





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Example 2

Divide the class according to whether they have brown eyes, and then by whether their birthday is in the first six months of the year or in the last six months of the year. Record the data in a two-way table, and then answer the following questions. Round any decimals to the hundredths place, and round any percentages to the nearest whole

number.

| | Jan-Jun | Jul-Dec | Totals | | |
|-----------|---------|---------|--------|--|--|
| Brown | l | 4 | lb | | |
| Not Brown | 9 | | 20 | | |
| totals | 15 | 15 | 30 | | |

Buchalous

a) What percent of students with brown eyes have birthdays from January to June?

b) What fraction of students with birthdays in July to December do not have brown eyes?

c) Write the ratio of students that have brown eyes to the total number of students as a decimal.

10 - 0.33333 10 0.33 30

d) What remember of students whose hirthday is in January to June have home

d) What percent of students whose birthday is in January to June have brown eyes?

e) What fraction of total students are those who do not have brown eyes and their birthday is from July to December?