# Coordinate Algebra
## Two – Way Frequency Table

Name_____ Class Period_____

Jessica surveys students at her school about their favorite food.  She recorded the responses in the table below.

| Food\Gender | Pizza | Chicken | Steak | French Fries | Totals |
|---|---|---|---|---|---|
| Males | 14 | 10 | 6 | 7 | |
| Females | 12 | 13 | 4 | 8 | |
| Totals | | | | | |

1. What is the joint frequency of female students who prefer Pizza?

2. What is the joint frequency of male students who prefer Steak?

3. What is the marginal frequency for each type of food?

4. What is the marginal frequency for each gender?

5. Given that the student is female, what is the frequency that she likes french fries?

6. Given that the student likes chicken, what is the frequency that the student is a male?

Billy surveys 9th and 10th graders on which ice cream flavor they prefer. The results are in the table below.

| Flavor Grade | Vanilla | Chocolate | Strawberry | Mint Chocolate | Total |
|---|---|---|---|---|---|
| 9th graders | 7 | 12 | 5 | 15 | |
| 10th graders | 5 | 11 | 8 | 13 | |
| Totals | | | | | |

1. What is the joint frequency of 9th graders who prefer Chocolate?

2. What is the joint frequency of 10th graders who prefer Mint Chocolate?

3. What is the marginal frequency of each Ice Cream Flavor?

4. What is the marginal frequency of each grade?

5. Given the student is a 9th grader, what is the frequency he/she likes Strawberry?

6. Given the student likes Strawberry, what is the frequency that he/she is a 10th grader?