**9.5 Day 2 Notes** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Create a two-way table to display all the data that is provided and answer the questions:**

1. There were 50 teachers that took a survey about the new schedule. Of those, 26 agreed with the new schedule. There were 20 females that were asked and 6 of those disagreed with the new schedule.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Agree | Disagree | Total |
| Male |  |  |  |
| Female |  |  |  |
| Total |  |  |  |

What is the percent of males that agree to the total number of teachers surveyed?

1. There were 35 7th graders interviewed and 50 8th graders interviewed about have a TV or internet in their home. Of the 59 students who said they have TVs in their home, 32 were 8th graders.

|  |  |  |  |
| --- | --- | --- | --- |
|  | TV | Internet | Total |
| 7th Grade |  |  |  |
| 8th Grade |  |  |  |
| Total |  |  |  |

How many 7th graders have access to a TV in their home?

What is the percentage of 8th graders that have internet at home?

1. A server noted what customers were eating and found that a total of 30 people that ate beef, 18 also ate rice. Of the 24 total that ate chicken, 6 of them ate pasta as well.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Rice | Pasta | Total |
| Chicken |  |  |  |
| Beef |  |  |  |
| Total |  |  |  |

1. How many people were eating rice?
2. What is the relative frequency of people eating chicken and rice to the number of people eating chicken?
3. What is the relative frequency of people eating beef and pasta to the total number of people of eating beef?
4. There were 128 people that went to the movies. There were 29 that purchased a drink but did not purchase popcorn. There were 68 total people that purchased popcorn but 4 of them did not purchase a drink.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Drink | No drink | Total |
| Popcorn |  |  |  |
| No popcorn |  |  |  |
| Total |  |  |  |

1. How many people go to the movies but do not buy popcorn and a drink?
2. What is the relative frequency of people that enjoy popcorn and a drink to the total number of people that attended the movie?
3. A survey was done of 80 9th and 10th graders. Of the 60 that prefer to text, 24 of them were 9th graders. Of the 20 that prefer instant messaging, 12 of them were 10th graders.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Text Message | Instant Message | Total |
| 9th Grade |  |  |  |
| 10th Grade |  |  |  |
| Total |  |  |  |

|  |  |  |
| --- | --- | --- |
|  | Text Message | Instant Message |
| 9th Grade |  |  |
| 10th Grade |  |  |

**Relative**

**Frequency**

**Grade**

|  |  |  |
| --- | --- | --- |
|  | Text Message | Instant Message |
| 9thGrade |  |  |
| 10thGrade |  |  |

**Relative**

**Frequency**

**Method of**

**Communication**

1. What is the percentage of 9th graders that use text messages as their way of communication?
2. How many 10th graders text as their means of communication?

|  |  |  |  |
| --- | --- | --- | --- |
|  | Aerobics | No Aerobics | Total |
| Jogging |  | 20 | 74 |
| No jogging | 8 |  |  |
| Total |  |  | 100 |

1. What is the percentage of students that jog and do aerobics?
2. What is the percentage of students that do not jog and do not do aerobics?