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## Histograms and Dot Plots Worksheet

Directions: Create a histogram for each set of data. Use intervals of 20. Do not forget to include a title as well.

1. Chocolate candies per bag of trail mix:

| 50 | 42 | 100 | 45 | 68 | 32 | 100 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 67 | 61 | 31 | 75 | 39 | 62 | 64 |
| 49 | 55 | 51 | 33 | 99 | 96 | 64 |

2. These are test scores, out of 100 points Create a box plot for the data. Use your notes to remind you how to make a box plot.

| 92 | 84 | 95 | 77 | 74 | 80 | 95 | 70 | 66 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 73 | 68 | 90 | 78 | 64 | 72 | 78 | 76 | 65 |
| 59 | 71 | 77 | 92 | 91 | 89 | 74 | 76 | 90 |

## Directions: Answer the following questions based on each of the dot plots.

3. The dot plot below shows the number of students in each of the teacher's class.

a. How many total students are there in all classes?
b. Which class has the least number of students?
c. Which class has the most number of students?
4. The following data shows the amount of chocolate Mrs. Latimer ate over the last 30 days. Create a dot plot to show how much chocolate she ate.

$$
3,5,9,2,4,5,3,8,7,4,2,9,7,1,2,2,5,7,12,6,3,7,9,2,1,7,4,3,9,11
$$

5. Students in Ms. Bonenfant's class each study one of three languages.

|  | French | German | Spanish | Total |
| :---: | :---: | :---: | :---: | :---: |
| Female | 15 |  |  | 39 |
| Male |  | 17 |  | 41 |
| Total | 31 | 28 |  |  |

a. Complete the two-way table.
b. What is the relative frequency of a student studying French?
c. What is the relative frequency of a female student studying German?
d. Out of the students that study Spanish, what is the relative frequency that student is a male?
6. Three rock bands played at a music festival. The names of the bands were The Rebels, ATC, and Wand. 100 teenagers were asked which band they had enjoyed most. The two-way table give information about their replies.

|  | The Rebels | ATC | Wand | Total |
| :---: | :---: | :---: | :---: | :---: |
| Female | 11 |  | 15 | 32 |
| Male |  | 18 |  |  |
| Total | 33 |  |  | 100 |

a. Complete the two-way table.
b. How many males completed the survey?
c. What is the relative frequency of teenagers that liked ATC?
d. What is the relative frequency of people that like Wand that were males?
e. Out of males, which band how the highest relative frequency?
7. 30 students were asked if they liked coffee. 20 of the students were girls. 6 boys liked coffee. 12 girls did not like coffee. Use this information to complete the two-way table below.

|  | Boys | Girls | Total |
| :---: | :---: | :---: | :---: |
| Liked Coffee |  |  |  |
| Did not like coffee |  |  |  |
| Total |  |  |  |

