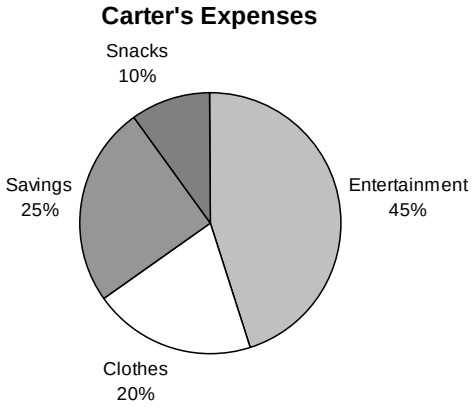
# Maps, Charts, & Graphs
## Worksheet 3

Choice *E*, in multiple-choice questions, is always: *I request help from the teacher*.

You may mark E in addition to one other choice if you think that you have the right answer to the question but you do not feel that you have a complete understanding of the problem.

Your teacher will decide whether to use the two-point or four-point scoring rubric for problems that use numbers, pictures, or words to justify/explain your answer(s). You may request help for these questions, too. Write the word "teacher" by your answer(s).

1. Carter earns $18 every week. The circle graph shows how Carter uses his money each week. How much money does Carter use for snacks and clothes each week? Use numbers, pictures, or words to explain your answer.



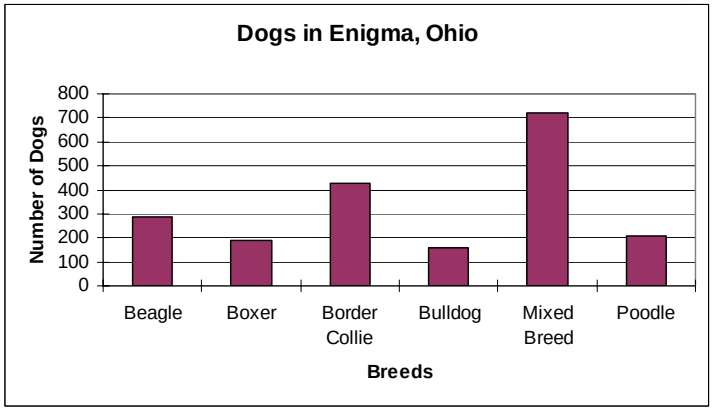

| Population of Ohio Cities | | | |
|---|---|---|---|
| **City** | **2000 Population** | **2003 Population** | **%Change** |
| | | | |
| Akron | 217,000 | 212,000 | –2% |
| Cincinnati | 364,000 | 317,000 | –13% |
| Cleveland | 506,000 | 461,000 | –9% |
| Columbus | 633,000 | 728,000 | +15% |
| Toledo | 314,000 | 309,000 | –2% |

2. The chart above shows changes in population in Ohio's five largest cities from 2000 to 2003. Based on the chart, which claim is a misuse of the data?

   A. Cincinnati lost 13% of its population between 2000 and 2003.
   B. Columbus gained people between 2000 and 2003.
   C. Akron and Toledo lost the same number of people between 2000 and 2003.
   D. As a general rule, Ohio's largest cities lost population between 2000 and 2003.
   E. Teacher

3. There are 2000 dogs in Enigma, Ohio. The graph shows the different kinds of dogs in town.

   a. Name a combination of 2 breeds of dog that make up half of the total dogs in town.
   b. Show or explain how you found your answer.




**U. S. List of Endangered and Threatened Mammals**

| Mammal Species | No. | Mammal Species | No. |
|---|---|---|---|
| Bats | 9 | Rats & Mice | 9 |
| Cats | 8 | Seals & Sea Lions | 4 |
| Deer & Antelope | 4 | Whales | 7 |
| Fox | 5 | | |

4. Use the data in the table of endangered and threatened mammals to make a bar graph. Make sure your graph is accurate and complete.

**1966 Burns' Reservoir Water Levels**

| Date | Depth in Feet | Date | Depth in Feet |
|---|---|---|---|
| 4/10 | 65 | 5/8 | 27 |
| 4/17 | 53 | 5/15 | 22 |
| 4/24 | 50 | 5/22 | 11 |
| 5/1 | 41 | 5/29 | 7 |

**1965 Burns' Reservoir Water Levels**

| Date | Depth in Feet | Date | Depth in Feet |
|---|---|---|---|
| 4/10 | 87 | 5/8 | 86 |
| 4/17 | 90 | 5/15 | 83 |
| 4/24 | 87 | 5/22 | 81 |
| 5/1 | 88 | 5/29 | 79 |

5. Chris examined the water depths for Burns Reservoir in 1965 and 1966. She decided that the following information about the depths were most likely to have had some connection to the disappearance of the staff and students in 1966. Chris wants to display the information graphically.

   a. Plot or graph the data. Make sure your plot or graph is accurate and complete.
   b. Explain why the type of graph or plot you made is the best type for displaying the given data.