



Problem 1 – Create a Pictograph

Marcus recently did a survey of other students in his class. His data shows favorite sports of his classmates.

Soccer: Sarah, Terri, Jacque, Trevor, Hayden, Jenna, Lucas

Tennis: Lisa, Sione, Brittany, Logan, Luis

Basketball: Jose, Samuel, Destiny

Football: Garrett, Isaac, Jack, Tristan, Ian

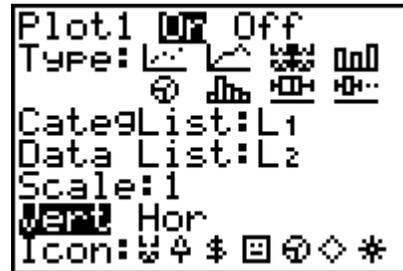
1. Enter the above information in lists. Enter the sport in L1 and the number of responses for each sport in L2.

Press **[LIST]** to access the lists. Clear L1, if needed. To enter the first sport, begin with the cursor in the first spot of L1. Press **[2nd]** **[MATH]** to enter Soccer. The lists only allow 5 letters per word. Enter **"SOCCR"**, then select **Done** and press **[ENTER]**. To enter the next sport, you do not have to use the **" "** around the word.



2. Write the numbers entered in L2. _____

3. Set up a Stat Plot to graphically represent the data. Press **[2nd]** **[Y=]** and **[ENTER]** to set up Plot 1.



After you set up the Stat Plot, press **[GRAPH]**. Sketch your pictograph at the right.

4. How do you know which sport is the most popular? How is this shown in the graph?





Problem 2 – Create a Pie Chart

Marcus' teacher asked him to discuss the percents represented by each sport in the previous problem.

- 5. Change the Stat Plot you created in Question 3 to a Pie Chart. To do this, change the Type to  and select Percent. Then graph again.



Press **TRACE** and use the arrow keys to move to each part of the graph.

- 6. What percent does each sport represent in the survey?

Soccer: _____

Tennis: _____

Basketball: _____

Football: _____

- 7. How are the pictograph and pie chart the same? How are they different?

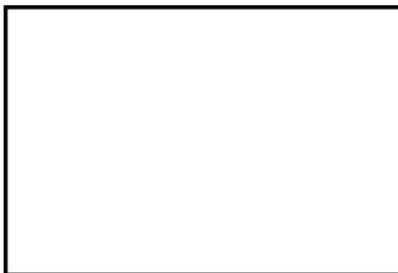
- 8. When would you use one instead of the other? _____

Problem 3 – Display Survey Results

Create a survey to conduct in your classroom or your neighborhood. Enter the data in lists and create any two different graphs to display the data.

- 9. Summarize your survey and record the data.

- 10. Sketch Graph 1



- 11. Sketch Graph 2

