

A

1. The number of goals scored by the top four players on the school soccer team are displayed. Jared has 14 goals.

Jared 

Phil 

Beth 

Talia 

- (a) What information is missing from the graph? Provide it.

- (b) How many goals does each player have?

- (c) What are the advantages and disadvantages of using a pictograph?

3. Some Grade 12 students were asked to estimate the number of hours of television they watch each day. These are their responses:

1, 1, 0.5, 1, 1, 0, 3, 2, 1.5, 0.5, 1, 1, 2, 2, 2, 5, 1, 0.5, 0.5, 2, 1, 0.5, 1, 0, 0.5, 3

- (a) Construct a tally and frequency table.

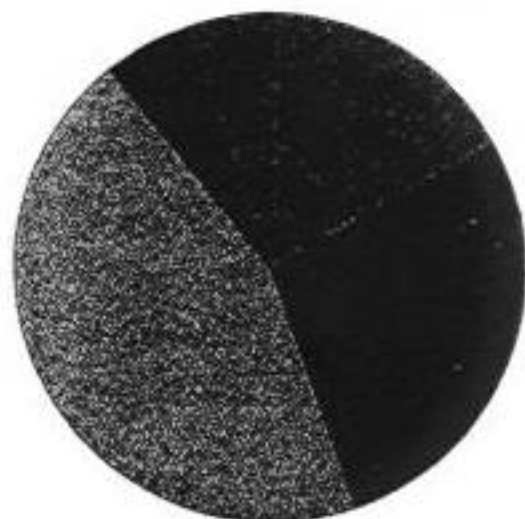
- (b) Use the information to produce a graph.

- (c) How many hours of television per day do you watch?

- (d) Investigate the average daily television watching time for Canadians. Compare this information with that from the class. Draw conclusion(s) from your comparison. Give reasons for your answer.

5. The school library has received a donation and will purchase books based on the borrowing patterns of the students.

Library Borrowing Patterns



Legend

-  French Language
-  English Fiction
-  English Non-Fiction
-  Reference
-  Spanish Language

- (a) Based on the graph, estimate what percent of the money should be spent on each book type.
- (b) If the library received a donation of \$125 000, estimate how much money should be spent on each book type.

6. Thirty people were asked to state their favourite sport. The responses are listed below.

Tennis	6
Football	8
Swimming	10
Badminton	3
Volleyball	3

Construct a circle graph to display this information.

7. **Knowledge and Understanding** The lengths of the songs on a CD compilation set are given in minutes and seconds below.

3:44	3:40	4:57	4:08	4:02	4:47
4:08	2:39	4:04	4:06	3:24	4:48
4:27	3:03	4:13	4:05	4:16	4:01
3:40	3:53	3:02	3:43	5:13	3:49
4:38	5:21	4:01	4:32	3:45	3:59
4:00	3:29	4:05	4:06		

What percent of the songs are less than 5 min in length?

- First, use a 30-s class interval to construct a frequency table.
- Then, use the table constructed in part (a) to answer the question.
- Explain why the table was more helpful than the list in answering the question.
- Which type of graph should be used to display these data?
Construct it.

8. The number of hot dogs sold by a street vendor for each day in the month of June is recorded below.

112	98	108	128	24	30	89
106	48	34	16	71	122	71
102	118	53	76	76	25	72
52	33	122	33	109	109	110
116	21					

- (a) Construct a stem-and-leaf plot to display the data.
- (b) Use the plot to determine the number of days when fewer than 80 hot dogs were sold.
- (c) On what percent of the days were more than 100 hot dogs sold?