Data Management

Grades 4-6

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Data Management - Level Four

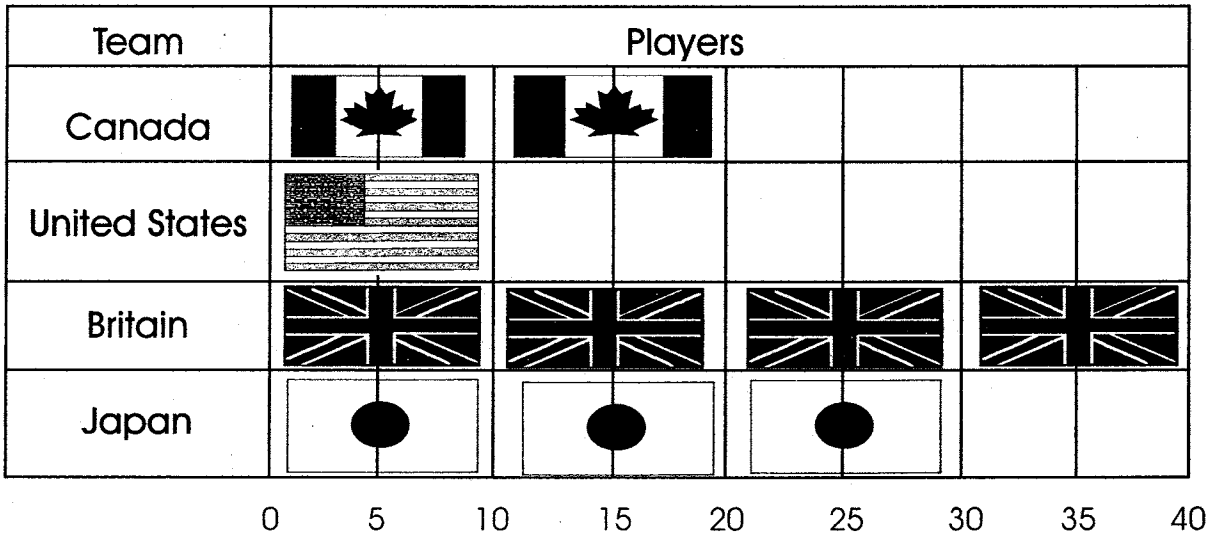
Nationalities in a Soccer Competition

Activity Two

The following pictograph shows the nationalities of participants in a recent soccer competition.

Look at the pictograph carefully.

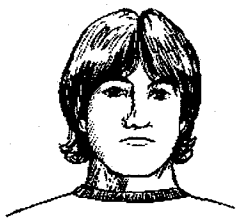
Nationalities in a Sports Competition



1 Flag = 10 People

Answer the following questions on the information given in the graph.

1. How many participants were in the competition? _____
2. Of those participants, how many were British? _____
3. What fraction of the participants were from the USA? _____
4. How many more Japanese participants were there than Canadian participants. _____
5. What percentage of the participants were not Canadian? _____
6. On another sheet of paper construct a bar graph to represent the data.



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What's Your Hair Color?

Activity Three

John surveyed one hundred people to find out what their hair color was. He made a circle graph to present his findings.

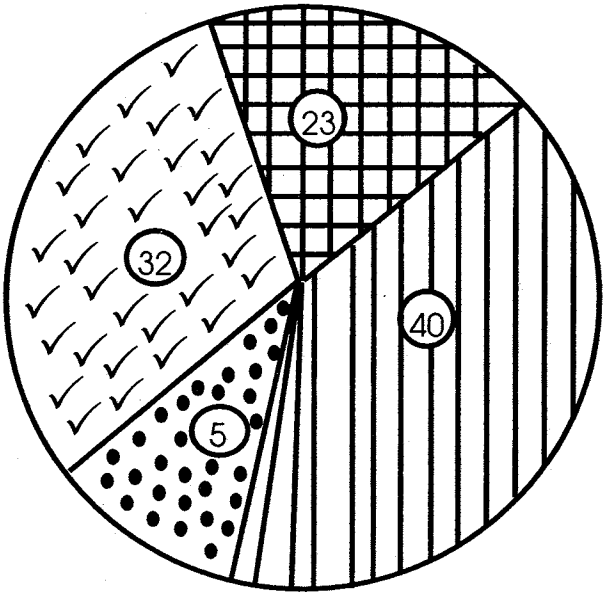
Hair Color

Red

Blond

Brown

Black



Answer the following questions based on John's findings.

1. What percentage of students had either red or brown hair? _____
2. What number of students did not have blond hair? _____
3. What was the most common color? _____
4. What color was the least common? _____
5. Graph the results in another way on another sheet of paper.

Bonus:

How would the circle graph change if John surveyed 1 000 people? Draw the new circle graph.

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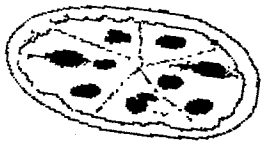


Fractions Test Scores

Activity Four

Mrs. Appleton's grade four class received the following scores on their recent fractions test.

45, 71, 85, 93, 21, 87, 87, 26, 65, 61, 56, 69, 73, 77, 79, 81, 72, 68, 64, 70, 95

1. Put the scores in order from the lowest score to the highest score.

_____

_____

_____

2. What is the median mark of the test scores? _____
3. What is the range of scores Mrs. Appleton's students received? _____
4. What is the mode? _____
5. What is the mean? _____
6. What conclusions can you draw from the data?

_____

_____

_____

7. Do you think the students understand the unit of work? Why or why not?

_____

_____

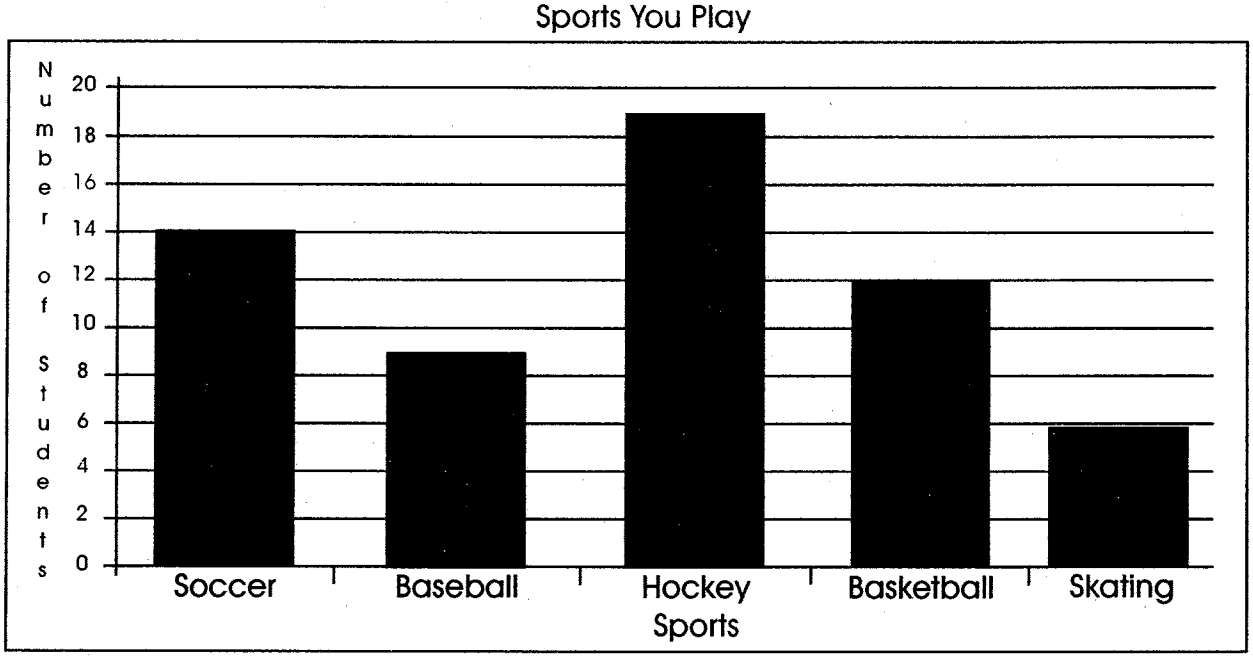
_____

Data Management - Level Four

Calling All Sports

Activity Five

Mohammed surveyed two grade four classes to see who played certain sports. He graphed his results in the following bar graph.



1. What was the most popular sport? _____
2. How many students liked figure skating? _____
3. How many students combined liked baseball and soccer? _____
4. Are you able to tell how many students were asked? Why or why not?

   _____

   _____

5. How could some students have trouble responding to this survey?

   _____

   _____

6. What could Mohammed add to his survey to incorporate everyone he asked?

   _____

   _____

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Sibling Survey

Activity Six

Survey your classmates to find out the ages of each of their brothers and sisters.

Record your answers in the following tally chart.

Ages	Tally
0 - 4 years	
5 - 9 years	
10 - 14 years	
15 - 19 years	
20 + years	

Answer the following questions in complete sentences.

1. What is the most frequently occurring age group?

   _____

2. What is the range in your data?

   _____

3. Why do you think some intervals are more common than others?

   _____

4. Predict what age group a new student's siblings would be in?

   _____

5. How might the results change if you surveyed the grade eight class?

   _____

6. Graph your results in a bar graph on another sheet of paper.