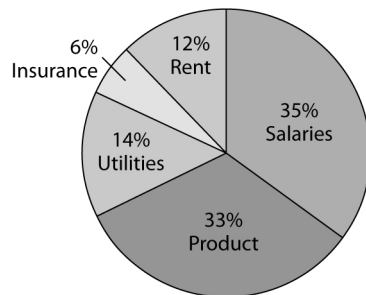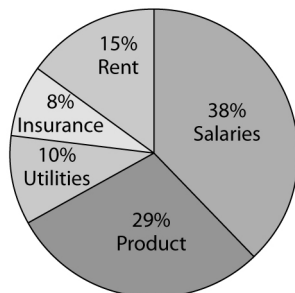# Section 4.3 Extra Practice

1. The head office of TechMart is comparing two stores in St. John's and Corner Brook, NL. At the end of the month, the accountant creates graphs of the monthly expenditures of each store location.

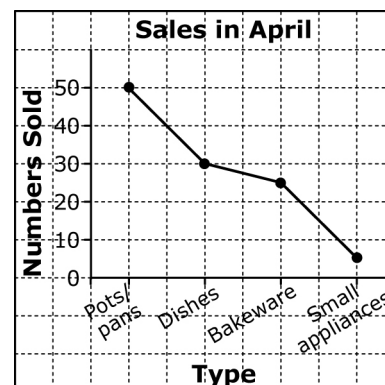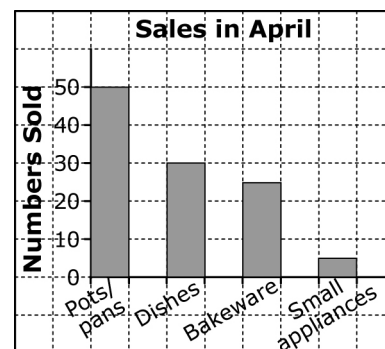**St. John's Monthly Expenditures**

Corner Brook Monthly Expenditures

a) Head office determines that the Corner Brook store is spending more money than the St. John's store on rent. Is this accurate? Why or why not?

b) The accountant looks at the financial records for each store and discovers that the St. John's store has total monthly expenditures of $60 000 and the Corner Brook store has total monthly expenditures of $45 000. Determine how much each store spends on rent each month.

c) Does your answer for part b) confirm your answer for part a)? If not, how could the accountant better represent the data using a graph?

2. The bookkeeper of a kitchen supply store prepared two graphs to represent sales in April.

a) State two observations that could be made about sales in April.
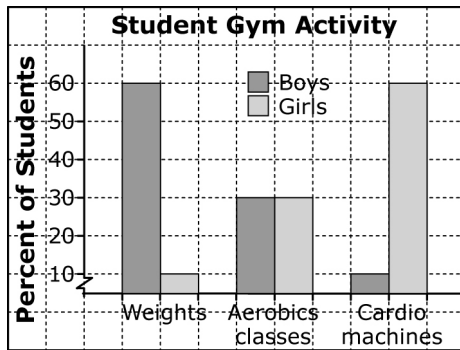
b) Which graph best represents data of this type? Explain.

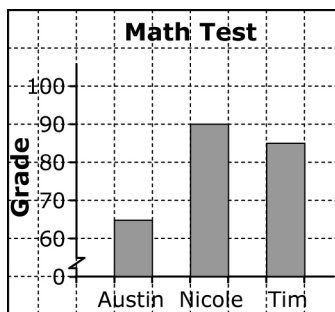**3.** The graph represents student activity at a school's fitness centre.
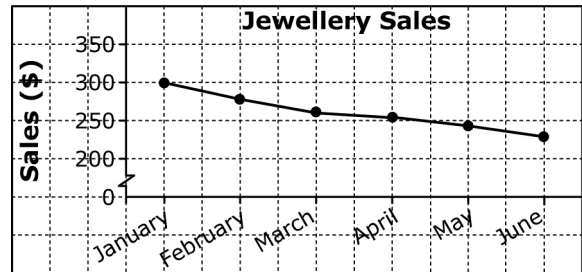

Student Gym Activity

a) State two observations that you could make from this graph.

b) Would knowing the total number of students surveyed affect the observations that you made in part a)? Explain.

4. The graph below displays the results of a math test.

Math Test

a) Explain how the graph could appear misleading.

b) What conclusions would most people make about the math test results?

c) Create a new graph that represents the math test results more accurately.

5. Kathleen sells jewellry to her family and friends. She tracks her monthly sales and displays them in a graph.

Jewellery Sales

a) Kathleen says that her sales have declined dramatically since January. Do you agree with her statement? Why or why not?

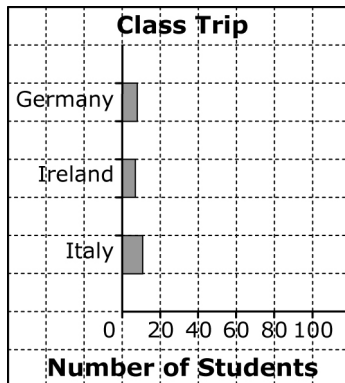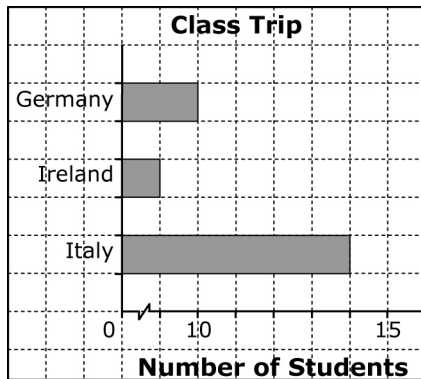b) How could you represent the data more accurately? Draw a new graph.

Name: _____   Date: _____

6. The two graphs below represent survey results about where the next class trip should be.

Class Trip

Germany | ▅
Ireland | ▪
Italy | ▅▅▅▅▅

0   10   15
Number of Students

Class Trip

Germany | ▪
Ireland | ▪
Italy | ▪

0   20 40 60 80 100
Number of Students

a) What is the same about the graphs?
b) What is different about the graphs?
c) Where do you think the creator of the first graph would like to go?
d) Where do you think the creator of the second graph would like to go?
e) Create a new graph that displays the data more accurately.

7. Michelle runs the breakfast program at her school. The number of girls and boys who participate in the program each week for one month is shown in the table.

Week Number	Number of Girls	Number of Boys
1	17	4
2	10	15
3	15	20
4	23	21

Create a misleading graph for each scenario.
a) Michelle wants to show that far more girls than boys use the breakfast program each month.
b) Student council wants to decrease funding for the program because not enough students use it.