

Activity: Chocolate Charts

Activity Objective:

Students will work with their Stock Market Game Teams to develop charts and graphs based on their portfolios.

Materials:

- Several bags of M & Ms
- Frosting
- 2 copies of each “creating a graph” worksheet for each group
- 1 plastic knife or spoon per group
- 1 small bowl per group
- 1 Dixie Cup per group

Procedure:

1. Put students into their SMG teams.
2. Give each group one copy of the “Creating a Graph” worksheets.
3. Tell students that they will be using graphs and tables to illustrate their SMG portfolio.
4. Explain to students that they must make a graph for each person in their group to explain...a group with 4 people will make 4 graphs, 5 people 5 graphs, etc.
5. Explain each of the types of graphs and tables to students and what information they will need to fill out each one. There are examples of each type that of graph that you may show to your students.

Note to teachers:

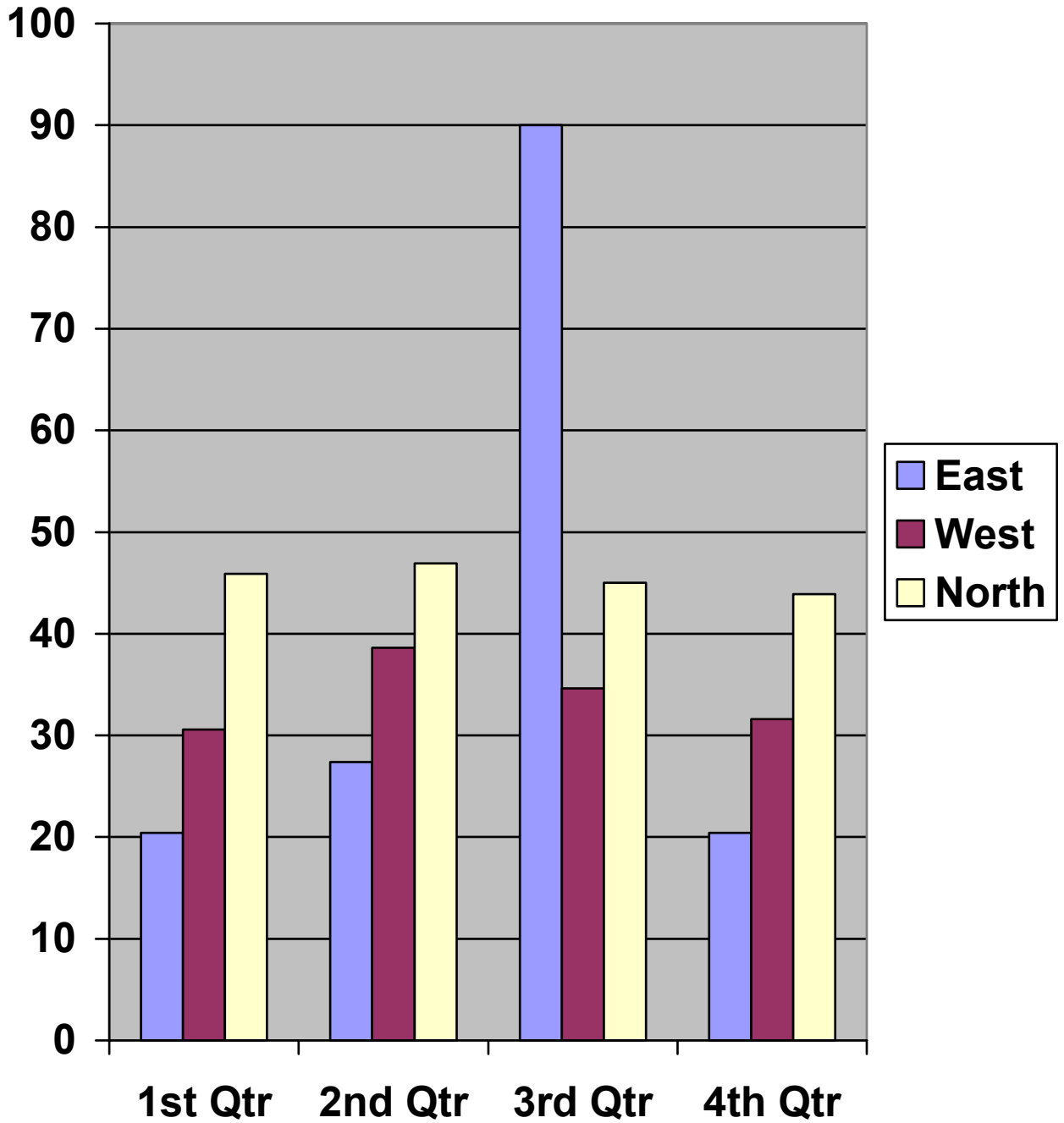
For older students you might want to have them develop their own graphs/tables rather than using the worksheets. This will allow for a greater variety of topics.

6. Have students draw each of the graphs/tables that they are going to share with the class on the “Creating a Graph” worksheets. Tell students that they should work as a group on each graph/table. Or you could assign each student one of the graphs/tables for homework.

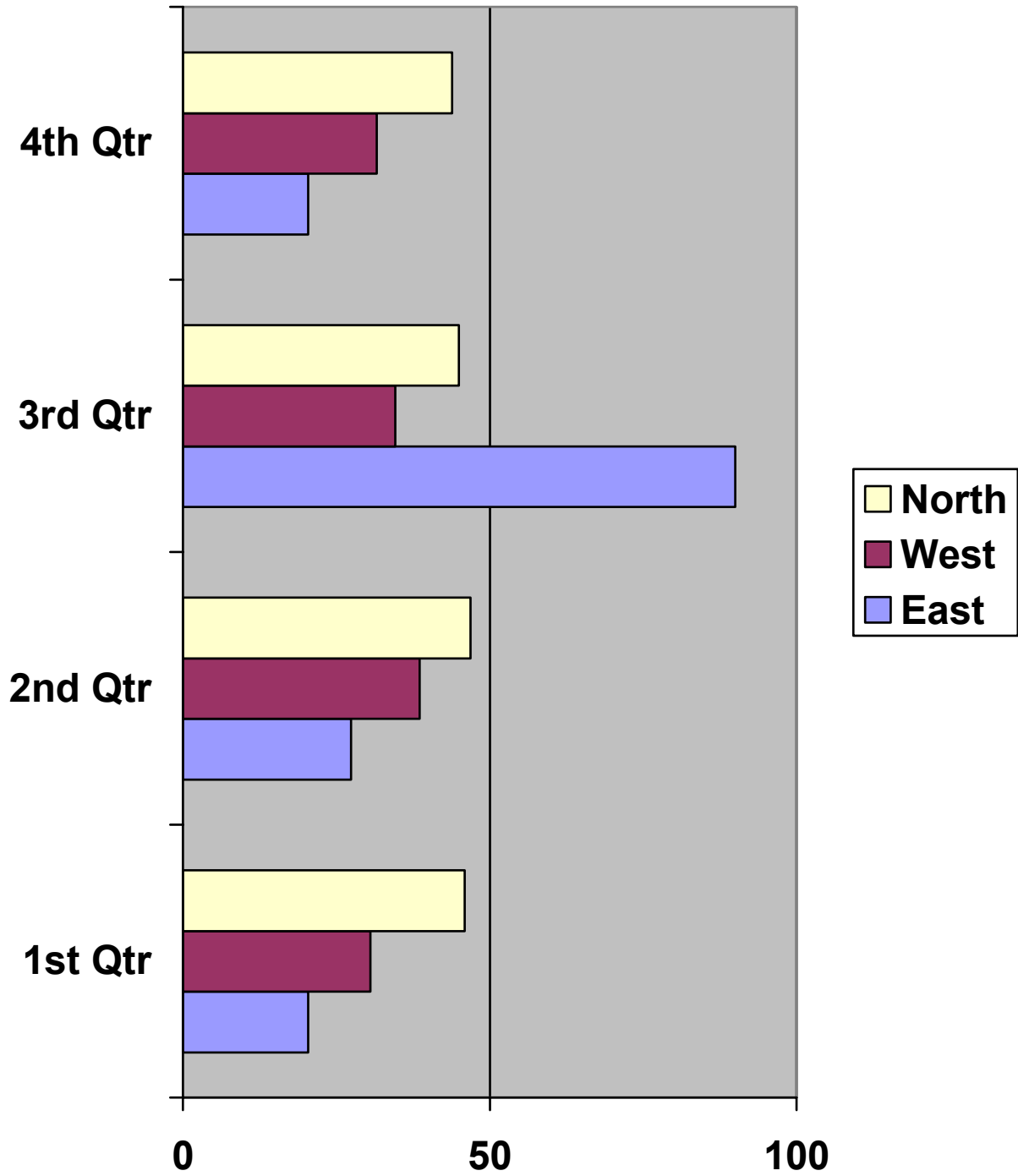
7. Once all of the students have developed their graphs and tables distribute the supplies. Each group should get:
 - Another copy of each of the "Creating a Graph" worksheets.
 - One bowls of M & Ms
 - A plastic knife/spoon
 - A Dixie Cup of frosting.
8. Have each group sort the M & Ms by color. Tell them that they will be using the M & Ms to represent units on their graphs.
9. Have each group develop a legend for each graph/table. For instance if each color is being used to represent a company they need to make a legend that explains which color is which company. Or they may need to make a legend that explains that red represents 100 units, Green 50 units, Brown 25 Units, etc.
10. Using the frosting as "glue" students should stick the M & Ms on the page. They will need to use a pen/pencil to label each axis.
11. Once all groups are finished, have each person present one of the graphs to the class. The frosting is NOT as strong as glue, so they will not be able to hold up the graph for all to see. It might be best if the class stood around a table and looked at the graph.
12. After everyone has presented their project, let them eat their work!

Examples

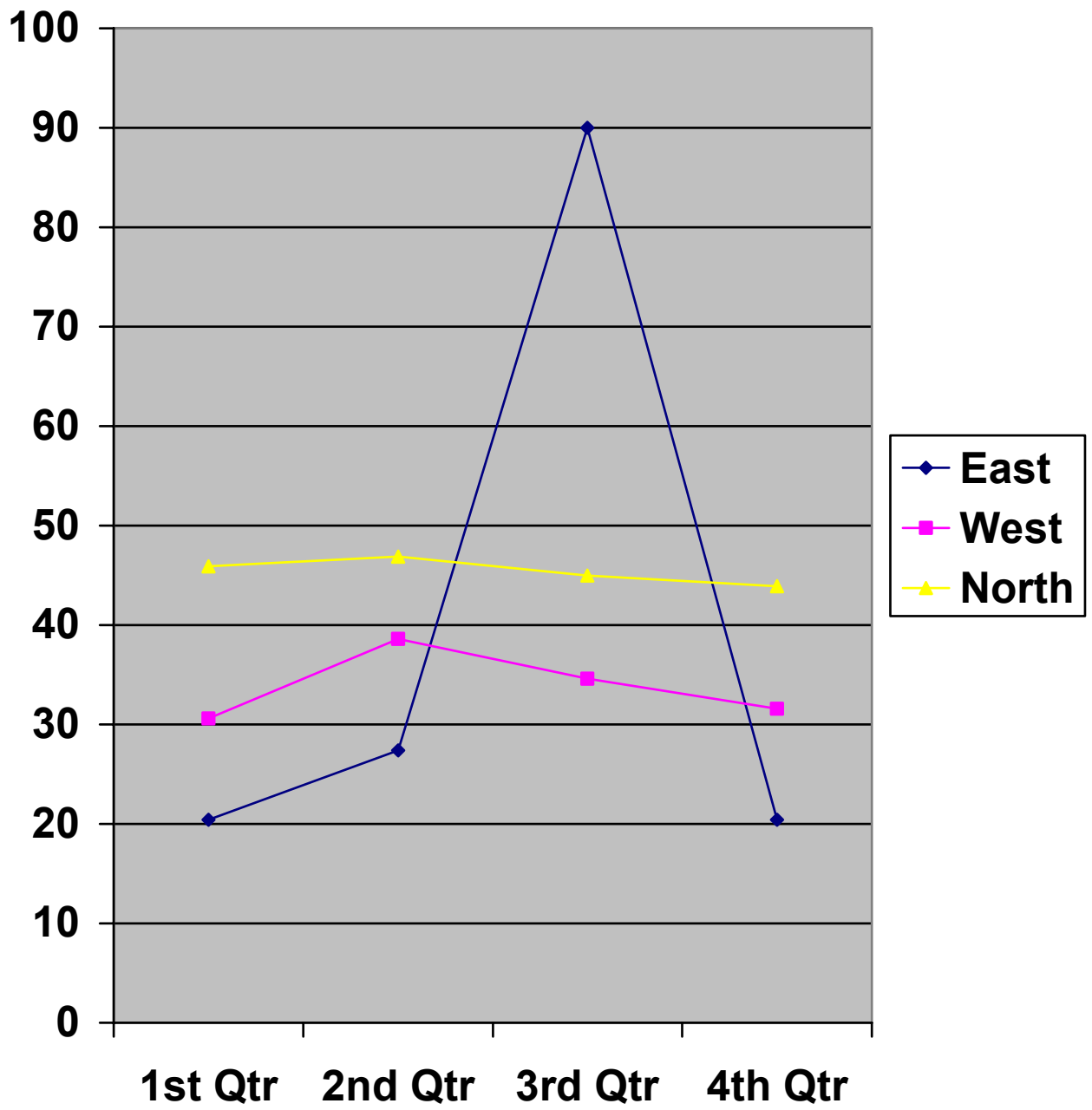
Column Chart



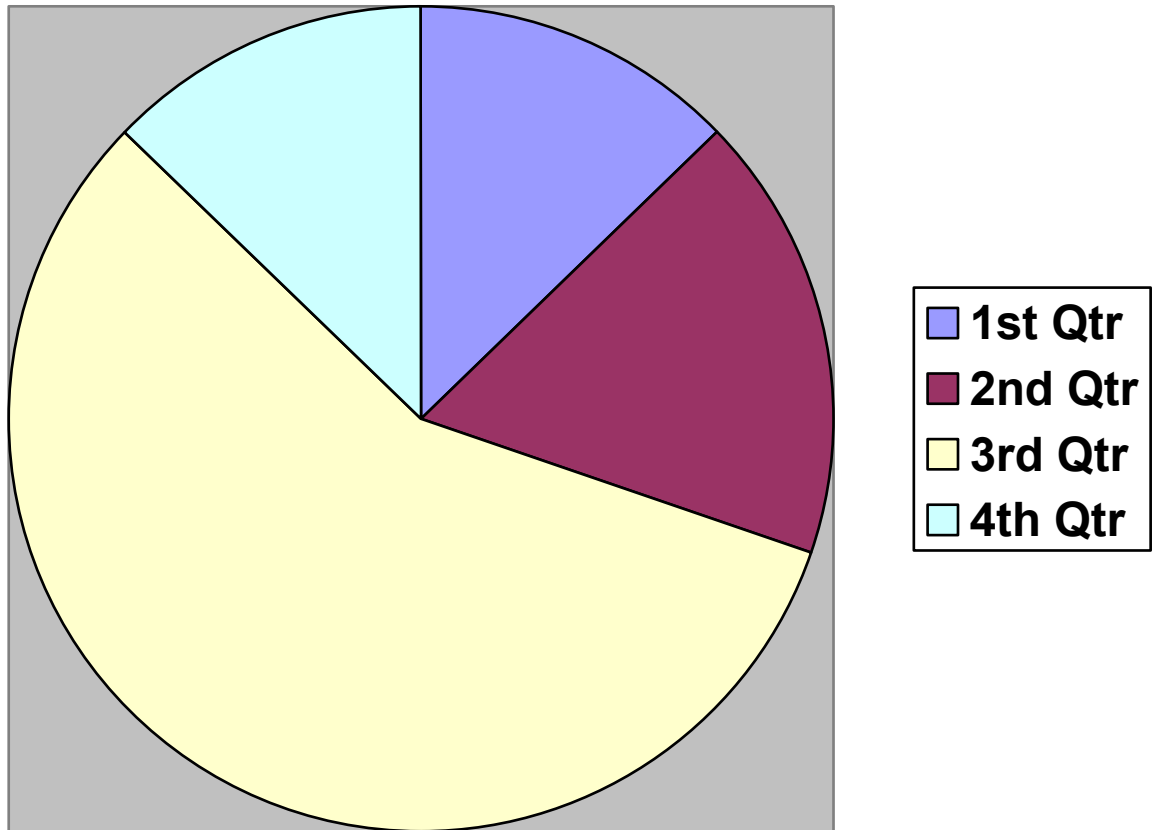
Bar Graph



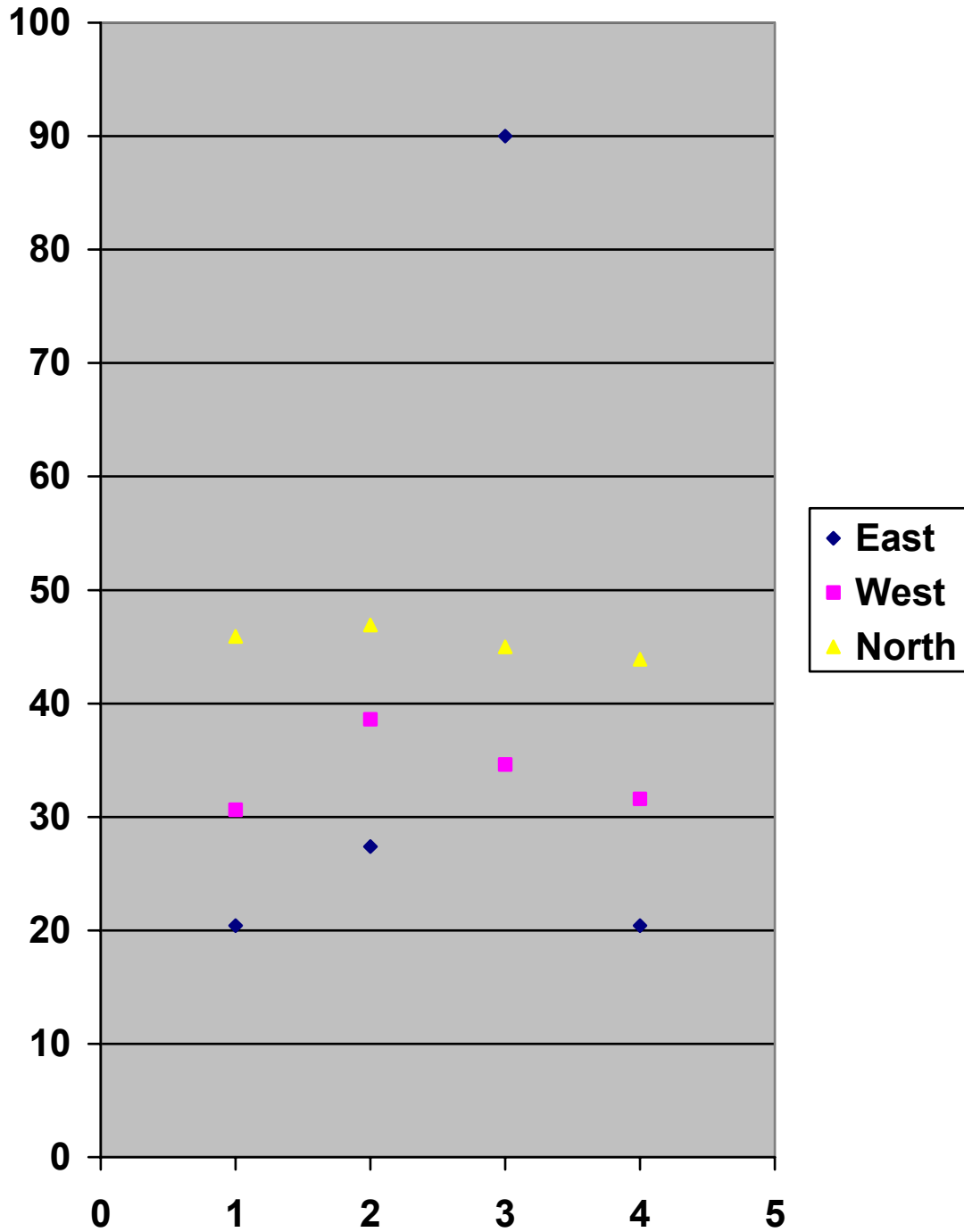
Line Graph



Pie Chart

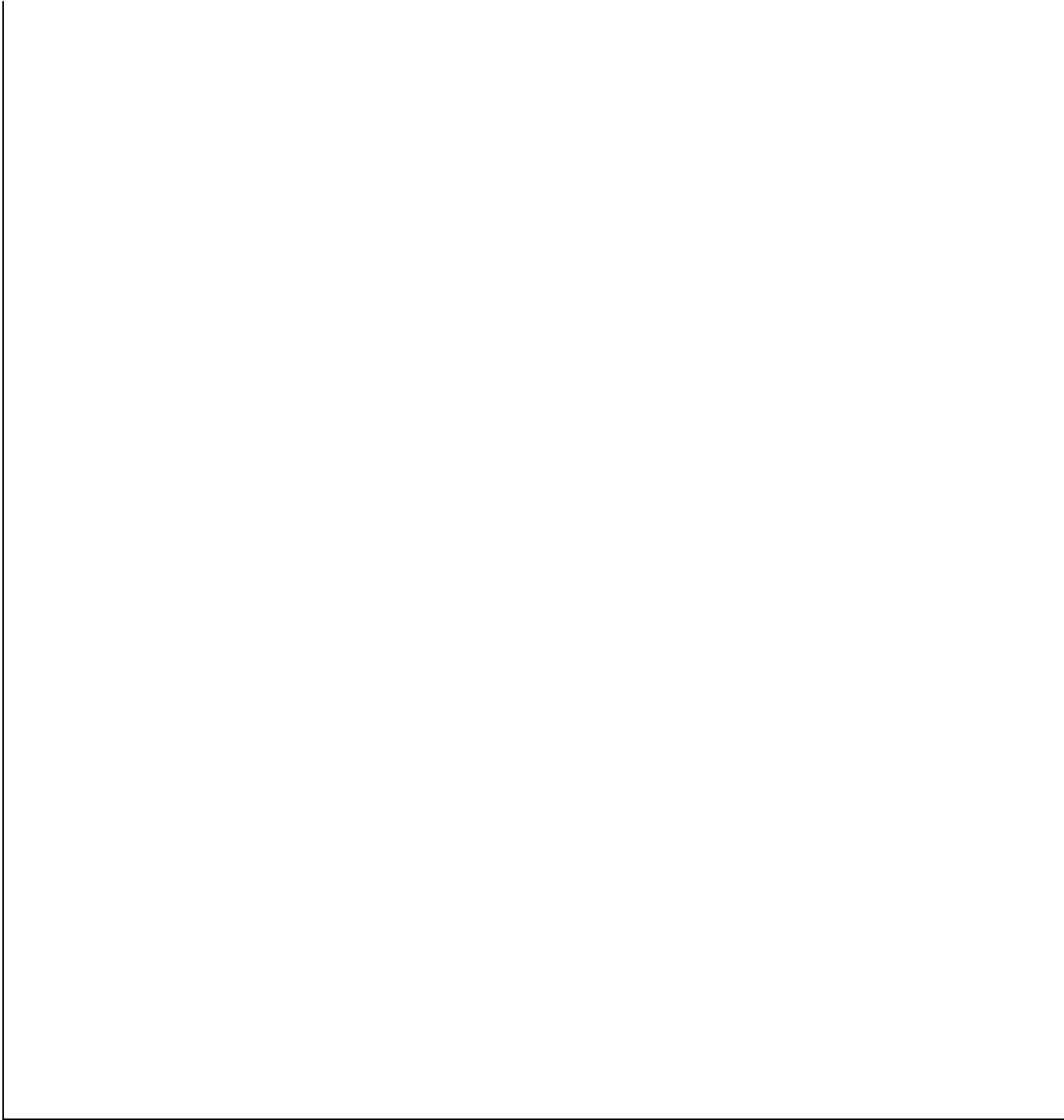


Scatter Graph

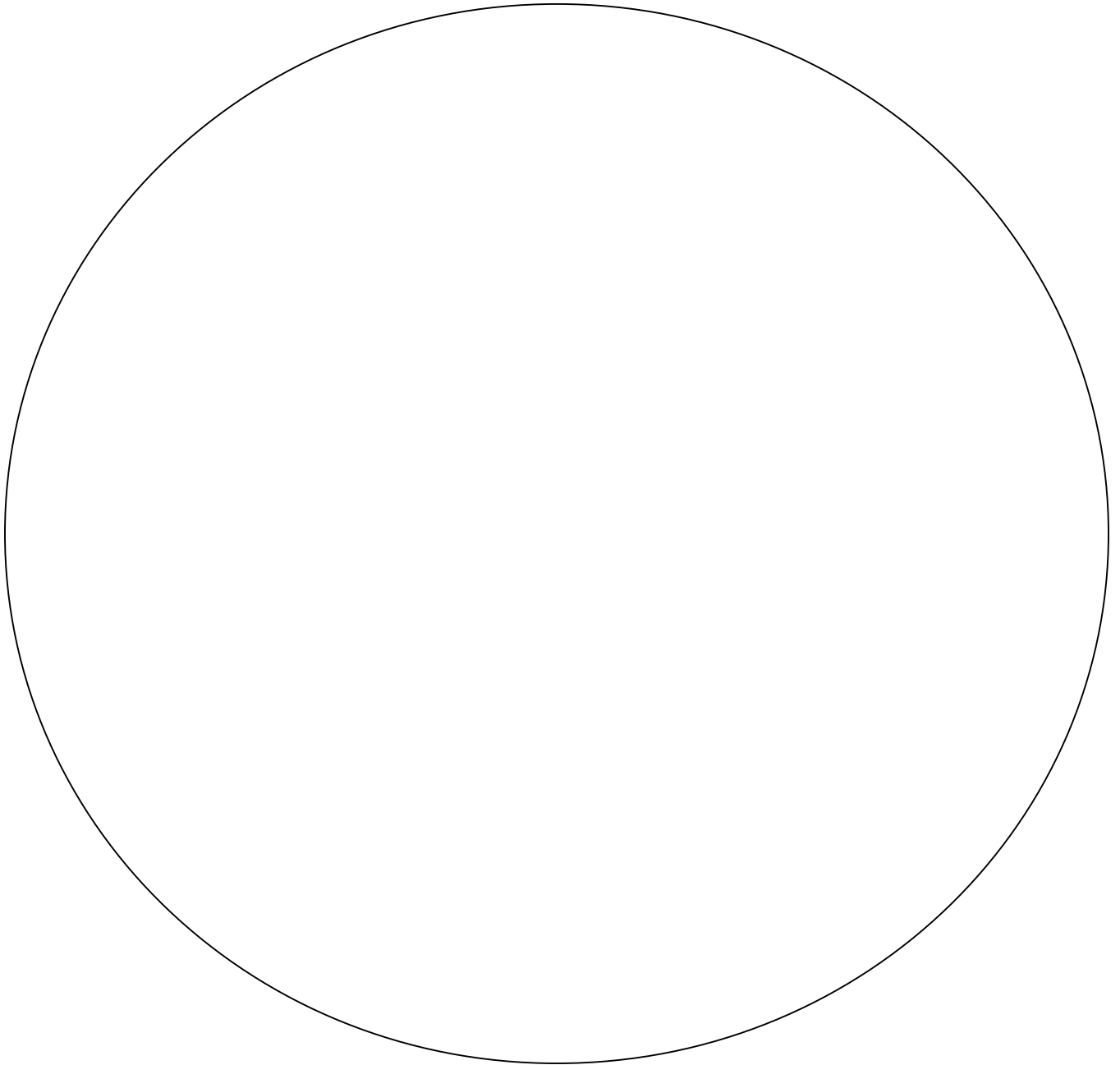


Creating a Graph Worksheet

Create a column chart that shows how much money each of your stocks earned.



Create a Pie Chart that shows what percentage of your \$100,000 was spent on each stock or was left in the “bank.”



Create a Bar Graph that shows the price when you purchased each stock and the price when you sold them.



Create a scatter graph by selecting 10 random days over the course of the 10 weeks and plotting how much each of your stocks was worth on that day.



Create a line graph that details what your stocks were worth each week over the course of the ten weeks.

