

Name: Key  
Date: \_\_\_\_\_

Mr. Johnson  
Math 8

## Lesson 7.1 – Choosing an Appropriate Graph

### Investigate:

Complete the Investigate activity on page 382 of your textbook with the person you are sitting beside. Answer the questions towards the bottom of the page. Be prepared to share your answer with the class.

(student response)

### Definitions:

Line graph:

- a graph that displays data by using points joined by line segments

Bar graph:

- a graph that displays data by using horizontal or vertical bars

Double bar graph:

- a bar graph that shows two sets of data

Circle graph:

- a diagram that uses sectors of a circle to display data.

Pictograph:

- a graph that uses a symbol to represent a certain number, and repetitions of the symbol illustrate the data.

Notes:

Each type of graph has its distinct advantages and disadvantages. Using the chart below list as many as you can individually and then we'll fill in the rest as a group.

Type of Graph	Advantages	Disadvantages
<p><b>Line Graph</b></p>	<ul style="list-style-type: none"> <li>- easy to draw and read</li> <li>- good for data starting with a large number (zigzag) etc.</li> </ul>	<ul style="list-style-type: none"> <li>- lacks visual appeal</li> <li>- % are not shown</li> </ul>
<p><b>Bar Graph</b></p>	<ul style="list-style-type: none"> <li>- easy to draw</li> <li>- heights of bars allow for easy comparisons</li> <li>- scale is useful to make total calculations</li> </ul>	<ul style="list-style-type: none"> <li>- some find difficult to read if lines don't end on a grid line</li> <li>- % are not shown</li> </ul>
<p><b>Double Bar Graph</b></p>	<ul style="list-style-type: none"> <li>- easy to understand</li> <li>- can directly compare two sets of data</li> </ul>	<ul style="list-style-type: none"> <li>- can only show discrete data</li> <li>- difficult to read accurately depending on scale</li> </ul>
<p><b>Circle Graph</b></p>	<ul style="list-style-type: none"> <li>- shows parts of the whole</li> <li>- each response is a %</li> <li>- sizes of sectors can be used to compare</li> </ul>	<ul style="list-style-type: none"> <li>- difficult to draw accurately</li> <li>- total is unknown</li> </ul>
<p><b>Pictograph</b></p>	<ul style="list-style-type: none"> <li>- length of rows allow for comparisons</li> <li>- visually appealing</li> </ul>	<ul style="list-style-type: none"> <li>- there can be a lot (too many) symbols</li> <li>- difficult to draw by hand.</li> <li>- does not show %</li> </ul>

Assignment:

Pg. 387-390  
#s 1, 3-8, 11