

GRADE 7 MATH UNIT 11

Lesson: Bringing it together with M&Ms
Subject: Math 7
Time: 46 minutes

Intended Learner Outcomes

- Students will review the concepts portrayed in this unit: Tally charts, circle graphs, bar graphs, line graphs, as well as mean, median and mode.

Student Materials: Standard materials, M&Ms, graph Paper, coloured pencils

Teacher Materials: Standard materials, colored paper in bags, coloured paper, glue, scissors...

WARM UP/REVIEW

Discuss the names of the charts on the board...what are the characteristics of each (All have a title, some have x and y axis labels, One requires a calculation of percentage). Review how to calculate the mean, median and mode...

Introduction:

For this class and a portion of next class we will be doing a culminating project on graphing. Your job will be to investigate different candy companies and determine how they distribute the different colours of their candy. For example, Smarties... do you eat the red ones last? Did you know, they traditionally have less red? Why might this be? Marketing, cost of dye... etc.

Body of Lesson:

Explain the activity, and then tell them that they can work with a partner, but will be doing their own pamphlet. They will be creating an informational brochure on one candy company... smarties, m&m, skittles,...any coloured candy. The brochure will pictorially represent the data for their experiment.

- They need to organize these 25 candies into color groups. They need to create a tally chart with percentage column to display their data. (see overhead).
- Using this data, they need to create a line graph, bar graph, and a circle graph. All need to DONE NEATLY and on graph paper.
- When done all of the graphs, being sure they all have the appropriate titles, they can cut them out and glue them into their brochure

Students need to get into PARTNERS. Choose wisely THIS ASSIGNMENT IS HIGHLY WEIGHTED.

If a group of 3 MUST be formed let them know that they will be graded slightly tougher because they have an extra person.

STEP 1: CREATE A CHART LIKE THIS:

Colour	Frequency	Fraction	Decimal	Percent
Yellow				
Red				
Green				
Orange				
Brown				
Total:				

STEP 2: Create the following

- Bar Graph
- Circle Graph
- Line Graph

NOTE: GRAPHS MUST BE NEAT, ON GRAPH PAPER

STEP 3: Cut and paste graphs and table into your brochure

STEP 4: Brochure, Names on brochure

STEP 5: Somewhere on the brochure, you need to answer the following questions in complete sentences:

- 1) What is the most common colour of M&M and what percent do they make up? Is this similar with others who are using the same candy as you?
- 2) What is the least common colour of M&M and what percent do they make up? Is this similar to others using the same candy as you?

STEP 6: If the distribution is uneven, give a reason why you believe this is... if it is evenly spread, tell why you think this is.