

Lesson:

Fun with Fractions & Skittles

Objectives:

Students will be introduced to fractions.

Students will be able to relate fractions to everyday use in the world.

Students will be able to interpret information using a chart.

Students will compare fractions, find equivalent fractions, order fractions by applying them to a number line, and simplify fractions.

Standards:

DAP 17.41

N.O. 1.4.5 & N.O. 1.4.8.

Materials:

Fun size bags of skittles

Worksheet

Overhead transparency of their worksheet

Overhead markers

Pencils

Examples on Smart Board

Opening Activity: (Review)

Ask the class if they can give you any examples of fractions. Ask them to think about fractions from everyday life. If they can not give you any examples, suggest a pie. Have them think about slicing up the pie in pieces. Draw a big circle on the board imitating a pie.

Ask the following questions pertaining to the pie drawing on the board: There are 8 slices in the pie and Charlie ate 3 pieces of pie. What fraction of the pie is left for his brother to eat?

Main Activity:

Hand out one bag of fun size skittles packets to each student. Tell each student to open their packages and separate each bag of skittles into colors. Once they have done this, have each student write their results for each color in the chart handed out to them (it is shown below). Fill in the chart on the overhead with the totals of each student's colors. Ask for one of the students data and fill in the chart on the smart board.

Color of Skittle	Number of Skittles	Fractional Representation of Color Out of the Whole
Red		
Orange		
Yellow		
Purple		
Green		
Total		

Answer the following questions using the data from the above chart.

1. What is the total number of skittles?

2. Out of all the skittles in your bag, how many of them are red?

Write this number in a fractional form. _____

3. Out of all the skittles in your bag, how many of them are orange?

Write this number in a fractional form. _____

4. Out of all the skittles in your bag, how many of them are yellow?

Write this number in a fractional form. _____

5. Out of all the skittles in your bag, how many of them are purple?

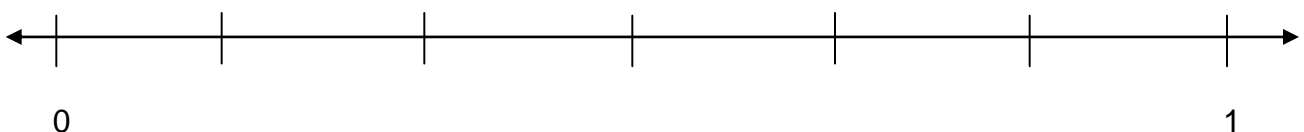
Write this number in a fractional form. _____

6. 4. Out of all the skittles in your bag, how many of them are green?

Write this number in a fractional form. _____

Students will then apply data from chart to a number line. They will simplify it from the original fraction and then order it accordingly by fraction size and color on the number line.

- label original fractional amount on top of the number line



- label equivalent fractional amount under the number line
 - write the color of the skittle on the number line

Now place your skittle colors in order from least to greatest.
(Example: Red<Yellow<Orange<Purple<Green)

Once that is complete the students will form an equality or inequality using their skittles sorted by color and amount.

Compare Fractional Amounts of Skittles by writing an equality or inequality.

Example

Purple & Red

Yellow & Red

Green & Red

$$\frac{6}{12} < \frac{3}{4}$$

Purple & Yellow

Purple & Green

Purple & Orange

Orange & Yellow

Green & Orange

Yellow & Orange
