Teaching objective(s):
Models and shows relationships among fractions and percents.

Instructional Activities:

- Teacher will prepare students for the activity by discussing fractions and percents. Given below are questions that the teacher will ask the students:
  
  1. What is a fraction? (Possible explanations should include part of a whole, etc).
  2. How is a fraction written?
  3. What is a percent? Teacher will explain that percent is so many out of 100.
  4. How are fractions and percents related, and how can fractions be used to calculate percents?

- Teacher will guide students through the written directions, by explaining the variety of activities to complete.

- Teacher will model the work required to complete the assignment, such as computing percents. Ask students if they have questions before they start.

- Teacher will divide students into cooperative learning groups
Have students pair up, so that each student has a partner.

- Have students sort the Skittles according to color and calculate the number of each color of Skittles recording to the data in columns 1 and 2 on the chart, according to the corresponding space for each color. 
  *(Attachment 1)*
• Have students compute fractions for each color of Skittles in their bags. Record data in column 4 on chart. (See attachment # 1).

• Have the students share their group’s information. Record the information on the chalkboard or transparency so that all students can see it, and have students record this information on data sheet.

• Based on knowing the number of one color from one pack of Skittles, have students make predictions or estimates related to the fractions/percents for the other colors.

• Use the data students computed and compare the results of individual colors by using greater than, less than or equal to problems.

• Have students create their own problems using the data collected from their Skittles information and share those problems with the class.

• Have students discuss class data and results.

Materials and Resources:

Log chart
Skittles Candy
Calculators
Pencils

Assessment:

• Teacher will observe students as they work. Teacher will check to make sure students are following the guidelines correctly.

• Teacher will review the math concepts practiced in class on fractions and percents. Ask students to discuss the relationship between fractions and percents.

• Have a group discussion about the overall activity, which tasks were difficult, which concepts were unclear, what areas need to be reviewed so that students have a better understanding.

• Students will collect data and record it on the Skittles data sheet. Have students use data and concepts written from the activity to create their own Skittle’s problem. Have each group share results of data gathered with class and explain problems. Through their explanation students should
Teacher will check each group’s sheet.

## Skittles Data Sheet

<table>
<thead>
<tr>
<th>Color of Skittles</th>
<th>Amount for each color</th>
<th>Percentage of each color</th>
<th>Fractional parts for each color</th>
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</table>

Total # of Skittles =

## Discussion Questions:

1. What kind of answers did you compute? _________________________________
   ____________________________________________________________________

2. How do you think your results will compare to the other students?
   ____________________________________________________________________
   ____________________________________________________________________

3. Given the result gathered for one color of Skittles, is it possible to make estimates or predictions pertaining to the other colors? _____________________________
   ____________________________________________________________________

   State reason for your answer: ________________________________________
   ____________________________________________________________________

4. What kind of results did you expect? _________________________________
   ____________________________________________________________________

5. Why do you think you got those results? _______________________________