Names: _____ Date: _____

Candy Calculations

Each group will receive a bag of candy. Before candy is handed out, groups must pick someone for each of these jobs: **Bag Rotator, Counter, Presenter, Double Checker, and Recorder.**

Bag Rotator: Hand out each bag of candy to other groups after your group divides them up. Also in charge of "Leftover Bag," with extra candy.

Counter: Responsible for counting candy and separating into piles.

Presenter: After all groups have completed the worksheet, the presenter will tell the class about how their mathematic strategies for dividing up the candy.

Double Checker: (If you have only 4 people in your group, skip this job) After the counter is done, double checker will recount the candy to make sure the math was done correctly.

Recorder: Once your group has divided up your first bag of candy, record all work and equations on chart paper for presenter to present.

<u>All Group Members:</u> Complete worksheet questions and show all work. Write out an equation and your answer.
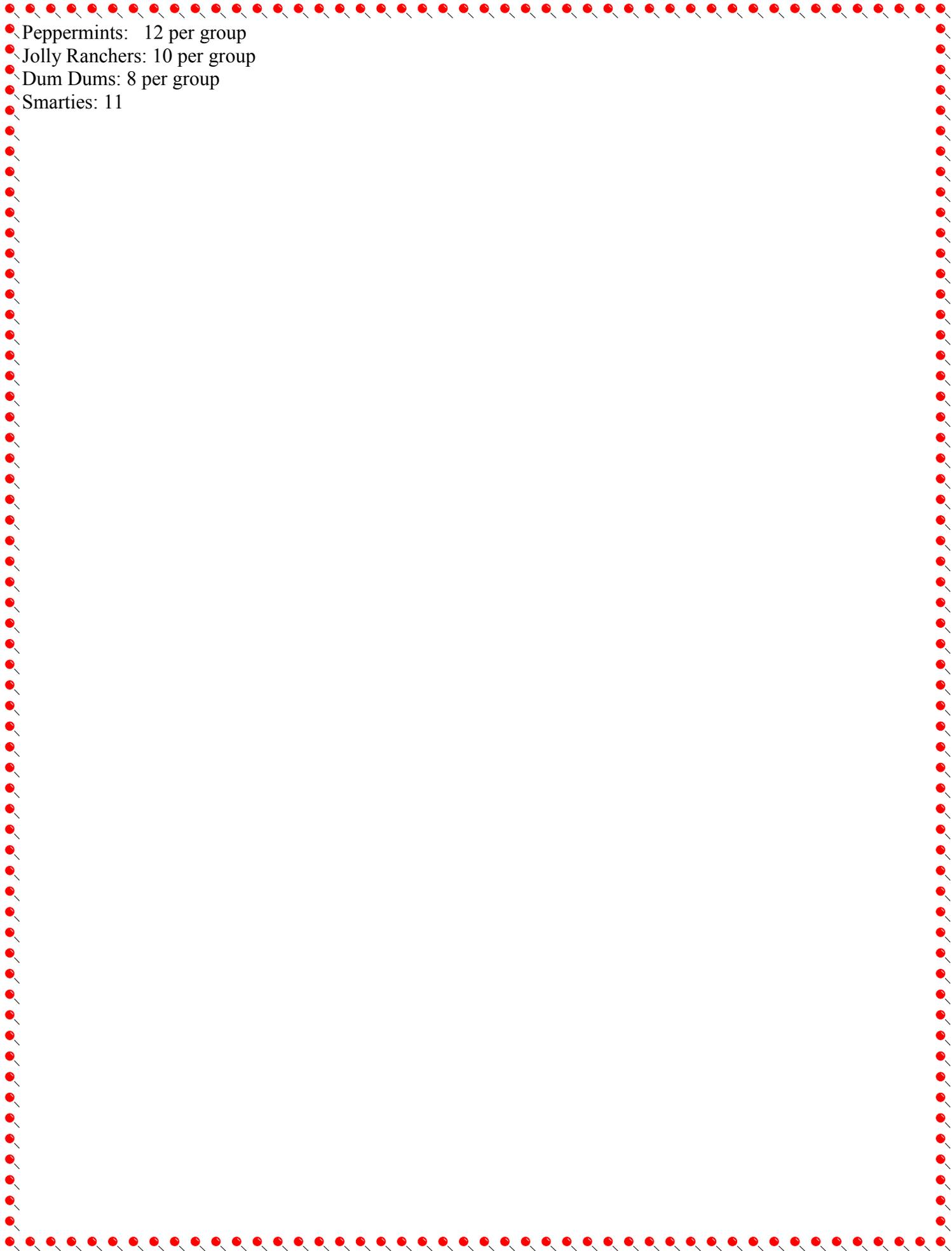
Tootsie Roll Group

Your job is to divide your candy up to share with other groups. Do not open your bag until the directions tell you to.

1.   How many tootsie rolls <u>would you</u> need so each group, including your own, had exactly 9, with none leftover? _____

2.   Open your bag and count your candies. What is the total #: _____

3.   Divide the candies up, so that each group, including your own, receives 9 candies.

4.   Do you have any leftovers if each group gets 9? _____
      i. If you do, how many are there? _____
      ii. Place these candies in the Leftover Bag and turn it into Ms. Coleman.

5.   Write the division problem that represents your work above:

6.   What is the multiplication problem that you could use to check your division?

7.   Have the Recorder write the following on the chart paper: Total # of candies, # of people in your group, Multiplication & Division problem

   Place each group's candy in a baggie and have the bag rotator hand them out.

8.   Now you have 4 new bags of candy. You must divide the candy up within your group so each person has the exact same amount of each candy. For each bag, complete the following graph:

Candy Name	Total # of people in your group	Total # of Candies in the bag	Division Problem to Show # of Candies per group member	How many candies for each person in your group	Leftovers?

Peppermints: 12 per group
Jolly Ranchers: 10 per group
Dum Dums: 8 per group
Smarties: 11