CGI Problem Type Resource

**Standards addressed by these problems: 2.G.3**

Overall purpose of these problem types: **Students will solve equal sharing problems to help them understand fractions.** **The problem types will allow students an opportunity to partition circles and rectangles into two, three, or four equal shares.** When students are partitioning, they are exploring fractions. Students need to think about what it means to be a half, third or fourth of a whole and which represents a larger or smaller part of the whole. Possible problem type to address is PDIV.

*(NOTE: Any of these problems can be used as a pre/post test or ongoing assessment of students’ understanding.)*

**PDIV (Partitive Division):**

You and your best friend are sharing a cake. How much of the cake will each of you get?

Jon invited 3 friends to his birthday party. All four of the boys decided to eat his birthday cake. They each received the same amount of cake, and they ate the entire thing! How much of the cake did each friend eat?

2 friends are sharing 3 cookies. How many cookies will each friend get?

At snack time, \_\_\_\_ kids shared \_\_\_\_ cupcakes. How much cupcake did each kid get?

(2, 8) (4, 8) (8, 4) (8, 2)

Afterschool, \_\_\_\_ kids shared \_\_\_\_ candy bars. How much candy bar did each kid get?

(3, 6) (3, 9) (3, 1) (3, 4)