

# Snack Sharing: Mandarin Oranges

M2C3 Project (2018)



# How are Mandarin Oranges and Clementines Harvested and Packed?

- Cuties <sup>TM</sup> and Halos <sup>TM</sup> are a brand names for clementine and mandarin oranges. You see them packaged in bags and boxes. Did you ever wonder how they got there?
- Click [here](#) to see how Cuties <sup>TM</sup> are harvested packed.
- What do you notice?
- What do you wonder?
- What questions do you have that you could answer using mathematics?



How many mandarin oranges do you think are in this 2-lb bag?





This is a picture of 2-lb bag of peeled mandarin oranges.

How many oranges do you see in this picture?

Do you think there are always the same number of oranges in a 2-lb bag? Explain why or why not.

What do you think?

How many mandarin oranges are there in a 3 pound bag?



How many mandarin oranges are there in a 5 pound box?





# Prices for Mandarin Oranges

| Package  | Weight        | Number of Oranges | Price  |
|--|---------------|-------------------|--------|
|   | 2 pounds (lb) | 15-18             | \$3.99 |
|   | 3 pounds (lb) |                   | \$5.49 |
|  | 5 pounds (lb) |                   | \$8.75 |

How many oranges do you expect to find in the 3-lb bag and the 5-lb box?

# Sharing Oranges for Snacks

The Healthy Snack Club at your school wants to buy mandarin oranges for snack time. How many 3 lb bags of mandarin oranges should they buy if they want to give each student in your grade an orange?



How many boxes would they need to buy if they bought 5 lb boxes?

Could they use a combination of each?

# Mandarin Orange Task



The Healthy Snack Club at your school wants to buy mandarin oranges for snack time.

- How many 3 lb. bags of mandarin oranges should they buy if they want to give each student in your grade an orange
- How many 5 lb. boxes of mandarin oranges would they buy if they want to give each student in your grade an orange?
- What will it cost the Healthy Snack Club to buy mandarin oranges for all of the students in your grade?

# Mandarin Orange Task



Extension:

Consider other ways to buy enough oranges for your everyone in your grade.

- Is your solution the least expensive solution? Why or why not?
- If it is not the least expensive, how could you modify it so that it would cost less to buy oranges for every student in your grade-level?