Muffles' Truffles

Lincoln School K–4 ☐ School Spotlight: Grade 3
School Committee Meeting
January 25, 2024

Big Math Ideas

- Multiplication is a BIG idea in Third Grade

- In the Muffles Truffles unit we learn
  - Repeated addition
  - Equal groups
  - Breaking numbers apart and putting back together – math properties – distributive, commutative, associative
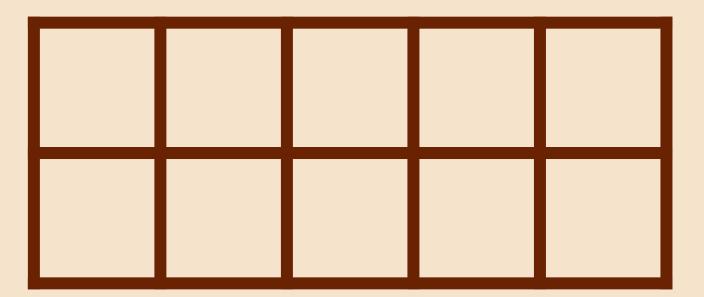 - Place Value Patterns – multiplying by 10

The Story of Muffles' Truffles

- Muffles owns a small truffle shop where he makes a variety of truffles and packages them in boxes of 10.
- As his shop becomes more popular, he hires an assistant, Patricio, to help with with boxing and organizing his truffles.
- Through trial and error, Patricio begins to use mathematical thinking and an understanding of the unmarked array to help him with his work!

How it Begins....

This is what the first box looks like.

How many truffles would this box hold?

How do you know?

A Problem We Worked On!

One day Muffles makes 10 different kinds of truffles. This is the list of the different trays Patricio sees when he comes into work that day:

- 218 raspberry truffles
- 132 strawberry truffles
- 174 dark chocolate truffles
- 83 vanilla truffles with cinnamon and nutmeg
- 126 green truffles with pistachios
- 308 truffles with pecans and caramel
- 97 butterscotch crunch truffles covered in milk chocolate
- 22 truffles with white and dark chocolate swirls
- 44 chocolate-covered cherry truffles
- 46 almond and raisin truffles

Questions We Solved

- How many boxes does Patricio need? How many leftovers of each kind will there be?

- Is there a shortcut way to know how many boxes of each kind he needs to pack and how many leftovers there will be for assortment boxes?

- How many assortment boxes can he make?

- Muffles sells his truffles for $1.00 each so his boxes sell for $10 each. How much money will he collect if he sells them all?

Gallery Walk

How we shared our good thinking...

- Walk and look at all the posters and different strategies.
- Leave comments and questions for each other on sticky notes.
- Remember the good ideas for next problems to solve!

Math Congress

An opportunity to _talk_ about our thinking and strategies.

- Partners share how the problem was solved and why.
- Others have the opportunity to listen, ask questions and learn from their peers