Bakery Boxes

3rd Grade Math Project · Food & Cooking

Grade 3 · Advanced

Name: _____ Date: _____ Class: _____

The Challenge

Welcome to the Third Grade Bakery! Orders are pouring in, and the fastest bakers use smart multiplication strategies.

You will make: Bakery Order Sheet

I can…

- I can use the commutative and associative properties to multiply.
- I can break a factor into parts, multiply each part and add.
- I can find any fact to 10 × 10 with a strategy.

Materials

- Pencil
- Grid paper
- Colored pencils

Steps

1. Part 1: Muffin Trays
2. Part 2: Break It Apart
3. Part 3: Boxes of Trays
4. Part 4: Compare Strategies
5. Check your work and share your bakery order sheet.

Part 1: Muffin Trays

One tray holds 8 rows of 7 muffins.

1. How many muffins are on one tray?

2. Turn the tray. Write the other multiplication equation.

Part 2: Break It Apart

Split the tray after the 5th column to make 8 × 7 easier.

3. Write the two smaller facts.

4. Add the parts. What is the total?

Part 3: Boxes of Trays

A box holds 3 trays, and each tray has 5 cupcakes. An order is for 4 boxes.

5. How many cupcakes are in one box?

6. How many cupcakes are in the whole order?

7. Which grouping did you use, and why was it easy?

Part 4: Compare Strategies

Two bakers found 9 × 8 in different ways.

8. Ana: (10 × 8) − 8. Ben: (5 × 8) + (4 × 8). Find each result.

9. Which strategy uses fewer steps? Explain.

10. Cora wrote 9 × 8 = (9 × 5) + 3. What is wrong?

Extension Challenge

A pan has 6 rows of 9 rolls. Show two different ways to break apart 6 × 9.

How your project will be scored

Learning target	4 Exceeds	3 Meets	2 Approaching	1 Beginning
I can use the commutative and associative properties to multiply.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can break a factor into parts, multiply each part and add.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can find any fact to 10 × 10 with a strategy.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can explain my thinking with pictures, numbers and words.	Clear for every part	Clear for most parts	Some explanation	Little explanation
My bakery order sheet is complete and matches my math.	Complete, neat, accurate	Complete	Partly complete	Not complete