School Store Shelves

3rd Grade Math Project · Shopping & Stores

Grade 3 · Remedial

Name: _____ Date: _____ Class: _____

The Challenge

You are the manager of the school store! New supplies arrived, and every item comes in equal packs or goes on the shelf in neat arrays.

You will make: Store Shelf Plan

I can…

- I can write a multiplication expression for equal groups and tell what each factor means.
- I can describe an array and find the total by multiplying.
- I can solve equal-group and array word problems with a drawing and an equation.

Materials

- Pencil
- Counters or cubes
- Grid paper

Steps

1. Part 1: Pencil Packs
2. Part 2: Eraser Display
3. Part 3: Store Problems
4. Part 4: Shelf Plan
5. Check your work and share your store shelf plan.

Look for the yellow Hint boxes. They show a first step.

Part 1: Pencil Packs

The store gets 4 packs of pencils. Each pack has 5 pencils.

Packs (groups)	Pencils in each pack	Total
4	5	

1. Draw 4 equal groups. How many pencils are in each group?

Hint: Each pack is one group.

2. Write a multiplication expression for the pencils.

Hint: Number of groups × number in each group.

3. How many pencils are there in all?

Hint: Skip count by 5s 4 times.

Part 2: Eraser Display

Erasers are set out in an array with 3 rows and 5 erasers in each row.

4. How many erasers are in each row?

Hint: Count across one row.

5. Write an equation for the array.

Hint: Rows × number in each row.

6. The display turns so it has 5 rows. How many in each row now?

Hint: Turning an array switches rows and columns.

Part 3: Store Problems

Use a drawing or an equation for each problem.

7. Markers come in boxes of 10. The store orders 6 boxes. How many markers?

Hint: Skip count by 10s.

8. Each notebook costs 5 dollars. How much do 7 notebooks cost?

Hint: 7 groups of 5.

Part 4: Shelf Plan

Make a shelf plan with three items. Show each item as equal groups or an array with an equation.

9. Item 1, item 2 and item 3 with equations.

Hint: Use the sentence frame: “There are __ groups of __, so __ × __ = __.”

Extension Challenge

The store sells stickers in sheets of 4 rows of 5. A class buys 3 sheets. How many stickers?

How your project will be scored

Learning target	4 Exceeds	3 Meets	2 Approaching	1 Beginning
I can write a multiplication expression for equal groups and tell what each factor means.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can describe an array and find the total by multiplying.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can solve equal-group and array word problems with a drawing and an equation.	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 store shelf plan is complete and matches my math.	Complete, neat, accurate	Complete	Partly complete	Not complete