



5th Grade Math Project – Week 2 Extension

Due: Friday

Presentations: In class Friday – bring your paper with all work shown

Project Title: “Stock Your Store!”

Last week, you designed your store and created departments, products, and prices. This week, you will extend your project by calculating **volume** to figure out how much space your products take up in your store.

Daily Steps

Monday – Product Packaging (Volume Basics) (Page 1)

- Choose **3 of your products**.
For each product, decide on the shape of its package (cube or rectangular prism.).
- Write down the **dimensions** of the package (length, width, height)
- Find the **volume** of each product’s package. Show all work.

Tuesday – Create Your Products (Page 2)

- Your products must be stored before selling!
- Design at least **2 storage boxes or crates** that can hold your products.
- Give each box **realistic dimensions**.
- Calculate the **volume of each storage box**.
- Show how many of your products can fit into each box.

Wednesday – Customer Shopping List (Page 3)

- Pick **1 of your store departments** from Week 1.
- Pretend that the department has shelves or a storage area.

- Estimate the **volume of the shelves/space** (length $\times$ width $\times$ height).
- Show how many storage boxes (from Tuesday) could fit into that space.

Thursday – Final Touches (Page 4)

Write a short paragraph:

- Why is volume important for running a business?
- How would knowing about space, storage, and packaging help you as a store owner?
- Check that all math work is labeled and neat.

Friday – Presentation Day

- Share your product packaging volumes, storage boxes, department space, and explanation of why volume matters in business.

Grading Rubric

Category	Excellent (4)	Good (3)	Needs Improvement (2)	Missing (1)
Product Volumes	3 products, dimensions realistic, volume correct	3 products, minor errors	2 products, some errors	1 or missing
Storage Boxes	2+ boxes, dimensions realistic, volumes correct, shows how many fit	2 boxes, minor errors	1 box, some errors	Missing
Department Volume	Volume calculated correctly, fits storage boxes, shows reasoning	Mostly correct with minor errors	Partially correct	Missing
Real-World Paragraph	Clear, thoughtful explanation of importance of volume	Somewhat clear, shows effort	Minimal effort	Missing
Neatness & Effort	Very neat, organized, shows effort	Mostly neat	Messy or minimal effort	Very messy/incomplete
Presentation	Clear, confident, explains all work	Explains most work	Explains parts unclearly	Does not present

Total Points: _____/24