Fractions Project

Goal: Identify a real-life problem that you can solve using fraction operations.

Assignment: ● You are starting a small project that requires you to calculate costs. ● Some of these costs involve fractions, and you'll need to solve for the total price using fraction operations.	Your assignment should contain these sections: ● **Problem**: This explains what project you need to calculate costs for. ● **Supplies:** What supplies do you need, how many of them do you need, and what do they cost? ● You should have **at least 5 items** in your project. ● **Solving:** Use fraction rules to solve for the final cost of these supplies.

Researching Prices

For this project, we want to convert decimal prices to fractions that we can calculate.

For any price you find, round it to the nearest **quarter** so we can make it into a fraction.

- Close to .00 - No fraction
- Close to .25 - Change the decimal to ¼
- Close to .50 - Change the decimal to ½
- Close to .75 - Change the decimal to ¾

Example: I find an item that costs $4.79. For this project, I'll change the price to 4 ¾

Example

I am painting a room in my house. I want to paint my room two different colours. In order to do this, I'll need:

- 4/3 litres of green paint - this costs $30 for a liter
- 7/2 liters of grey paint - this costs $19 3/4 for a liter
- 1 roll of painter's tape - this costs $8 1/4
- 2 roller brushes - this costs $16 ½
- 1 paint tray - this costs $8 3/4

Project Ideas

- Baking ingredients
- Sports equipment
- Art Project
- Planning a Party

Rubric

Emerging	Developing	Proficient	Extending
Contains less than 5 items, and calculations involving mixed numbers or improper fractions. Calculations are unclear or contain errors.	Contains 5 or more items, and calculations involving mixed numbers or improper fractions. Calculations may contain a few errors.	Contains 7 or more items, and calculations involving mixed numbers or improper fractions. Calculations are well explained, with some minor errors.	Proficient, and answer this question as well: If 3 of your items were on sale for 20% off, what would your new cost be?