

Lesson: Division of Whole Numbers – Real-World Application (Dividing a Budget)

Common Core Standard: 4.NBT.B.6 – Divide multi-digit numbers by 1-digit numbers

Objective:

- Students will apply division strategies to real-world problems, specifically dividing a budget among multiple expenses or people.
 - Students will use long division and other division techniques to calculate the amounts to be allocated.
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Materials:

- Whiteboard and markers
 - Chart paper for budget breakdown
 - Calculators (optional for checking)
 - Pencils and erasers
 - Division Budget Worksheet (provided)
 - Example budget data (fictional numbers for student practice)
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Safety Precautions:

- Ensure that students are seated properly at their desks to avoid distractions while handling materials.
 - Handle calculators or other devices carefully and avoid misuse.
 - Ensure that all students are following the steps in a calm, organized manner to maintain focus throughout the lesson.
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Procedures:

1. **Introduction (Day 1):**
 - Begin with a short review of division, explaining how it helps in distributing resources like money, food, or tasks.
 - Introduce the project: students will apply division to divide a fictional budget among various expenses or people.
2. **Budget Breakdown (Day 2):**

- Present a sample budget (e.g., a family's monthly expenses, event budget, or charity donation fund).
 - Explain how division can be used to split the budget among categories.
 - Provide students with their own fictional budgets and ask them to calculate how much to allocate to each category using division.
 - Encourage students to use long division or other strategies they've learned (like partial quotients) to solve the problems.
3. **Real-World Application (Day 3):**
- Have students work in pairs or small groups to discuss how they might adjust a real-life budget (such as for a birthday party or class event).
 - Students will present their budget breakdowns and the division process they used to arrive at their final numbers.
 - Facilitate class discussions on how division helps us make fair and accurate decisions when managing money.
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Note: Clean-up:

- After completing the division project, ensure that all students return their materials neatly to their designated places.
- Collect all worksheets, calculators, and chart paper.
- Remind students to dispose of any scrap paper properly and wipe down their desks after the activity.