

Division - Finding the Number of Items

Objective:

- Students will learn how to use division to find the number of items when given a total number and the number of items in each group. They will understand the relationship between division and multiplication, and apply these skills to solve real-world problems.

Introduction to Division

- **What is Division?**
 - Division is splitting a number into equal parts. It's like sharing items equally among groups.
- **Simple Example:**
 - If you have 12 cookies and want to share them equally among 4 friends, you use division to find out how many cookies each friend gets.

2. Division and Multiplication Relationship

- **Explain the Relationship:**
 - Division is the opposite of multiplication. If $4 \times 3 = 12$, then $12 \div 3 = 4$.
- **Example:**
 - **Problem:** If you know that $4 \times 3 = 12$, you can find out how many groups of 3 there are in 12 by dividing: $12 \div 3 = 4$.

3. Division with Word Problems

- **Problem-Solving Steps:**
 1. **Read the Problem:** Understand what is being asked.
 2. **Identify the Total Number:** How many items are there in all?
 3. **Determine the Number of Items per Group:** How many items will be in each group?
 4. **Divide:** Use division to find the number of groups.
- **Example Problem 1:**
 - **Problem:** You have 24 pencils and want to put them into 6 pencil cases. How many pencils will each pencil case hold?
 - **Solution:** $24 \div 6 = 4$ pencils per case.
- **Example Problem 2:**
 - **Problem:** There are 30 students in a class and each row has 5 students. How many rows are there?
 - **Solution:** $30 \div 5 = 6$ rows.

4. Review and Conclusion

- **Recap:**

- Summarize how division helps us find the number of items in each group and the relationship between division and multiplication.