

Multiplying by 6

1. Introduction to Multiplying by 6

- **Start with a Simple Question:**
 - "If we have 6 groups of something, how do we find out how many we have in total?"
- **Explain the Concept:**
 - **Multiplication is Repeated Addition:**
 - When we multiply by 6, we're adding the number 6 several times.
 - For example, 4×6 means we are adding 6 four times: $6 + 6 + 6 + 6$.

2. Visualize Multiplying by 6

- **Use Objects:**
 - **Example:** If you have 6 boxes, and each box contains 5 toys, how many toys are there in all?
 - **Demonstrate with Counters or Blocks:**
 - Group the counters into sets of 6.
 - Count the total number of counters.

3. Skip Counting by 6

- **Practice Skip Counting Together:**
 - **Count by 6s:**
 - Start at 6 and count up by 6: 6, 12, 18, 24, 30, 36, 42, 48, 54, 60.
 - **Engage the Class:** Ask students to join in or use a rhythm to make it fun.
- **Use a Number Line:**
 - Draw a number line and mark the multiples of 6 to visualize the skip counting.

4. Learn the Multiplication Facts for 6

- **Multiplication Table for 6:**
 - Show the multiplication facts for 6:
 - $6 \times 1 = 6$
 - $6 \times 2 = 12$
 - $6 \times 3 = 18$
 - $6 \times 4 = 24$
 - $6 \times 5 = 30$
 - $6 \times 6 = 36$
 - $6 \times 7 = 42$
 - $6 \times 8 = 48$
 - $6 \times 9 = 54$
 - $6 \times 10 = 60$

5. Real-World Examples

- **Example Problem 1:**
 - **Problem:** You have 6 bags of marbles, and each bag has 7 marbles. How many marbles are there in total?
 - **Solution:** $6 \times 7 = 42$ marbles.
- **Example Problem 2:**
 - **Problem:** There are 6 pages in each book. If you have 8 books, how many pages are there in total?
 - **Solution:** $6 \times 8 = 48$ pages.

6. Practice Problems

- **Solve Together:**
 - **Examples:**
 - $6 \times 3 = \underline{\hspace{2cm}}$
 - $6 \times 5 = \underline{\hspace{2cm}}$
 - $6 \times 9 = \underline{\hspace{2cm}}$

7. Review and Conclusion

- **Recap:**
 - Summarize how multiplying by 6 means adding 6 several times and how we use patterns to solve these problems.