Multiplying by 7

1. Introduction to Multiplying by 7

- **Start with a Simple Question:**
  - "If we have 7 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 7, we're adding the number 7 several times.
    - For example, 4×7 means we are adding 7 four times: $7 + 7 + 7 + 7$.

2. Visualize Multiplying by 7

- **Use Objects:**
  - **Example:** If you have 7 boxes, and each box has 4 toys, how many toys are there in all?
  - **Demonstrate with Counters or Blocks:**
    - Group the counters into sets of 7.
    - Count the total number of counters.

3. Skip Counting by 7

- **Practice Skip Counting Together:**
  - **Count by 7s:**
    - Start at 7 and count up by 7: 7, 14, 21, 28, 35, 42, 49, 56, 63, 70.
    - **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 7 to visualize the skip counting.

4. Learn the Multiplication Facts for 7

- **Multiplication Table for 7:**
  - Show the multiplication facts for 7:
    - $7 \times 1 = 7$
    - $7 \times 2 = 14$
    - $7 \times 3 = 21$
    - $7 \times 4 = 28$
    - $7 \times 5 = 35$
    - $7 \times 6 = 42$
    - $7 \times 7 = 49$
    - $7 \times 8 = 56$
    - $7 \times 9 = 63$
    - $7 \times 10 = 70$

5. Real-World Examples

- **Example Problem 1:**
  - **Problem:** You have 7 baskets of fruit, and each basket has 6 apples. How many apples are there in total?
  - **Solution:** $7 \times 6 = 42$ apples.
- **Example Problem 2:**
  - **Problem:** There are 7 pages in each notebook. If you have 8 notebooks, how many pages are there in total?
  - **Solution:** $7 \times 8 = 56$ pages.
- **Show Visuals:** Draw or use objects to represent the problem.

6. Practice Problems

- **Solve Together:**
  - **Examples:**
    - $7 \times 2 =$ _____
    - $7 \times 5 =$ _____
    - $7 \times 9 =$ _____

7. Review and Conclusion

- **Recap:**
  - Summarize how multiplying by 7 means adding 7 several times and how we use patterns to solve these problems.