# 3rd Grade Math Lesson: Multiply by 7

#### **Objective:**

• Students will understand and practice multiplying numbers by 7 using strategies such as skip counting, repeated addition, and using known multiplication facts. By the end of the lesson, students will be able to solve multiplication problems involving 7 and apply these skills to real-world situations.

## 1. Introduction to Multiplying by 7

- Begin with a discussion:
  - Ask students, "What does it mean to multiply by 7?"
  - Have them share what they know about multiplication and skip counting.
- Explain:
  - Multiplication is repeated addition. For example,  $7 \times 3$  means adding 7 three times: 7 + 7 + 7 = 21.
  - Skip counting is another way to think about multiplying by 7: 7, 14, 21, 28, etc.

## 2. Skip Counting by 7

- Activity:
  - Practice skip counting by 7 as a class, starting from 0 up to 70.
  - Write the numbers on the board as students say them: 7, 14, 21, 28, 35, 42, 49, 56, 63, 70.

Tip: Use songs, number lines, or clapping to make skip counting engaging.

## 3. Multiplying by 7 Using Repeated Addition

- Explain:
  - Show students that multiplying by 7 is the same as adding 7 repeatedly.

#### Example 1:

 $\circ 7 \times 2 = 7 + 7 = 14$ 

- $\circ \quad 7 \times 4 = 7 + 7 + 7 + 7 = 28$
- Activity:
  - Ask students to solve problems using repeated addition. Write problems like:
    - 7 × 3 = \_\_\_\_\_
    - 7 × 5 = \_\_\_\_\_

## 4. Multiplication Facts for 7

• Introduce and practice:

• The multiplication table for 7. Explain that these are key facts to remember:

- Activity:
  - o Give students flashcards or worksheets to practice these facts.

## 5. Real-World Application of Multiplying by 7

- Discuss:
  - Ask students, "Where can we use multiplying by 7 in real life?"
    - Examples: Days in a week, 7 friends sharing items, 7 groups of items, etc.
- Example Problem 1:
  - There are 7 days in a week. How many days are there in 5 weeks?
  - Solution:  $7 \times 5 = 35$  days.
- Example Problem 2:
  - If each person has 7 cookies, how many cookies do 6 people have in total?
  - Solution:  $7 \times 6 = 42$  cookies.

#### 6. Guided Practice

- Solve together:
  - Solve problems like these as a class:
    - 7 × 3 = \_\_\_\_\_
    - 7 × 8 = \_\_\_\_\_
    - 7 × 7 = \_\_\_\_\_
- Use visuals:
  - Draw arrays or use counters to help students visualize the multiplication facts.

## 7. Independent Practice

- Worksheet:
  - Students will solve problems on their own, like:
    - 1.  $7 \times 4 =$  \_\_\_\_\_ 2.  $7 \times 6 =$  \_\_\_\_\_ 3.  $7 \times 9 =$  \_\_\_\_\_

## 8. Multiplication Games

- Game 1:
  - $\circ$  Play "Multiplication Bingo" with the class. Students have bingo cards with products of 7. Call out problems like 7  $\times$  5, and students mark the answer if it appears on their card.
- Game 2:

 $\circ$   $\,$  Play a timed quiz or flashcard game where students race to answer multiplication facts for 7.

## 9. Conclusion

- **Recap:** •
  - Ask students to explain what they learned about multiplying by 7.
  - Review the key multiplication facts for 7.
- Exit Ticket:
  - Have students solve a problem like:

    - 7×6=\_\_\_\_\_
      7×8=\_\_\_\_\_