

## 2nd Grade Math: Multiplying by 4 Using Skip-Counting

### Introduction to Skip-Counting by 4

Skip-counting by 4 means adding the number 4 repeatedly. This is a helpful way to learn multiplication facts for 4 and helps students understand how multiplication works.

### Key Concept: Skip-Counting by 4

- **Skip-counting** is a method of counting forward by a specific number, in this case, 4.
- Skip-counting by 4 looks like this: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, and so on.
- Each step represents adding 4, which is the same as multiplying by 4.

### How to Skip-Count by 4

To skip-count by 4, start at 4 and keep adding 4 each time. Here's an example:

- 1 group of 4 = 4
- 2 groups of 4 = 8
- 3 groups of 4 = 12
- 4 groups of 4 = 16
- 5 groups of 4 = 20
- 6 groups of 4 = 24
- 7 groups of 4 = 28
- 8 groups of 4 = 32
- 9 groups of 4 = 36
- 10 groups of 4 = 40

### Multiplication Facts for 4

By skip-counting, you also learn the **multiplication facts** for 4:

- $1 \times 4 = 4$
- $2 \times 4 = 8$
- $3 \times 4 = 12$
- $4 \times 4 = 16$
- $5 \times 4 = 20$
- $6 \times 4 = 24$
- $7 \times 4 = 28$
- $8 \times 4 = 32$
- $9 \times 4 = 36$
- $10 \times 4 = 40$

### Practice Activity: Skip-Counting by 4

1. **Skip-Count Together:**

- Have students skip-count by 4 up to 40 or more. Write the numbers on the board: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40.
- 2. **Hands-On Activity:**
  - Use objects like blocks or counters. Create groups of 4, and ask students to count the total as they add more groups.
  - For example: 1 group of 4 (4), 2 groups of 4 (8), and so on.

## Word Problems Using Multiplying by 4

1. **Problem 1:**
  - **Question:** There are 4 chairs at each table. If you have 5 tables, how many chairs are there in total?
  - **Solution:** Skip-count by 4 five times: 4, 8, 12, 16, 20. There are 20 chairs.
2. **Problem 2:**
  - **Question:** You have 4 pencils in each box. If you have 6 boxes, how many pencils do you have?
  - **Solution:** Skip-count by 4 six times: 4, 8, 12, 16, 20, 24. You have 24 pencils.

## Practice Questions

1. Skip-count by 4 up to 24.
  - **Answer:** 4, 8, 12, 16, 20, 24.
2. Multiply:  $4 \times 5 = ?$ 
  - **Answer:** 20.
3. Multiply:  $4 \times 7 = ?$ 
  - **Answer:** 28.

## Conclusion

Skip-counting by 4 is a useful method to help students understand multiplication. It helps them visualize how multiplication works by seeing the repeated addition of 4, making multiplication facts for 4 easy to learn and remember!