

2nd Grade Math: Multiplying by 5 Using Dot Paper

What Is Dot Paper?

Dot paper is a grid of dots that can help students visualize and understand multiplication. When we multiply, we are creating equal groups, and dot paper helps show these groups clearly.

How Dot Paper Helps with Multiplication

Dot paper allows students to:

- **Group dots** to represent multiplication problems.
- **Count dots** in rows and columns to find the total.
- **See patterns** and connections between multiplication and repeated addition.

Multiplying by 5 Using Dot Paper

When multiplying by 5, you can use dot paper to show groups of 5. For example, let's look at the multiplication problem 5×3 . This means you have 3 groups of 5.

1. **Step 1:** Draw 3 rows of 5 dots.



2. **Step 2:** Count all the dots.

- In the first row, there are 5 dots.
- In the second row, there are another 5 dots.
- In the third row, there are 5 more dots.

3. **Step 3:** Add the dots together or skip-count by 5.

- $5 + 5 + 5 = 15$, or you can skip-count:
 - 5, 10, 15.

4. **Answer:** $5 \times 3 = 15$.

Example 1: Multiply 5×4 Using Dot Paper

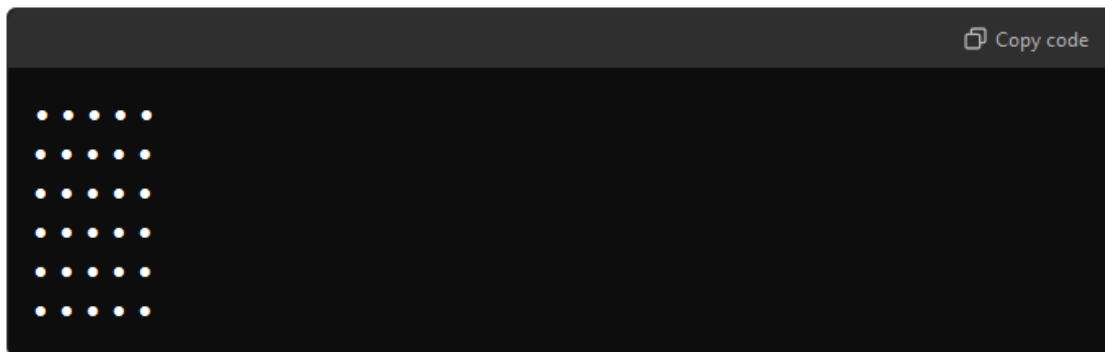
1. **Step 1:** Draw 4 rows of 5 dots each.



2. **Step 2:** Count the total number of dots.
 - In each row, there are 5 dots. There are 4 rows in total.
3. **Step 3:** Skip-count by 5 to find the answer.
 - 5, 10, 15, 20.
4. **Answer:** $5 \times 4 = 20$.

Example 2: Multiply 5×6 Using Dot Paper

1. **Step 1:** Draw 6 rows of 5 dots each.



2. **Step 2:** Count the total number of dots.
 - You have 6 rows, and each row has 5 dots.
3. **Step 3:** Skip-count by 5 to find the total.
 - 5, 10, 15, 20, 25, 30.
4. **Answer:** $5 \times 6 = 30$.

Practice Multiplying by 5 Using Dot Paper

1. **Multiply 5×2 :** Draw 2 rows of 5 dots each and count the total.
2. **Multiply 5×5 :** Draw 5 rows of 5 dots each and count the total.

3. **Multiply 5×7 :** Draw 7 rows of 5 dots each and count the total.

Why Use Dot Paper for Multiplication?

- **Visual Understanding:** Dot paper helps students see what multiplication looks like as groups of equal numbers.
- **Organized Counting:** The rows and columns make it easy to skip-count and find the total.
- **Better Comprehension:** By grouping and counting dots, students can connect multiplication to repeated addition.

Conclusion

Using dot paper is a fun and effective way for students to practice multiplication, especially when multiplying by 5. It helps them visualize the problem, see the patterns in multiplication, and build a strong foundation for more advanced math concepts. By using dot paper, students can confidently multiply numbers and understand how multiplication works.