

MP1c-Integers and Coordinate Plane

Content Area: **Mathematics**
Course(s): **Math 4 Resource Room**
Time Period: **Marking Period 1**
Length: **MP1**
Status: **Published**

Essential Questions

- How can you multiply by multiples of 10, 100, and 1,000?
- How can you estimate when you multiply?

Big Ideas

- **Multiplication by 1-Digit Numbers:** The algorithm for multiplying by 1-digit numbers up to 100 is developed. Conceptual understanding for the standard algorithm is developed further through the use of models and manipulatives.
- **Solve One-Step Problems:** Students will use multiplication to solve problems involving whole numbers.

Career Integration Integration

- 9.2.4a.1 Identify reasons why people work, different types of work, and how work can help a person achieve personal and professional goals.
- 9.2.4a.2 Identify various life roles and civic and work-related activities in the school, home, and community.
- 9.2.4a.3 Investigate both traditional and nontraditional careers and relate information to personal likes and dislikes.
- 9.2.4a.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.

Connection:

Use real world mathematical problems involving area. Include job roles such as architects, construction workers, etc. to solve area word/story problems.

Enduring Understandings

Operations and Algebraic Thinking

4.OA.A.3 Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

Number and Operations in Base Ten

4.NBT.B.5 [M] Multiply a whole number of up to four digits by a one-digit whole number, (and multiply two two-digit numbers), using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

Mathematical Practices

1. Make sense of problems and persevere in solving them.