# MP2c-Use Operations With Whole Numbers To Solve Problems 

| Content Area: | Mathematics |
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| Course(s): | Math 4 Resource Room |
| Time Period: | Marking Period 2 |
| Length: | MP2 Topic 6 6-1 to 6-5 |
| Status: | Published |

## Essential Questions

- How is comparing with multiplication different from comparing with addition?
- How can you use equations to solve multi-step problems?


## Big Ideas

- One-Step Problems: Students solve One-step word problems involving addition, subtraction, multiplication, and division.
- Multi-Digit Arithmetic: Students will use place-value understanding and properties of operations to perform multi-digit arithmetic up to 100 .


## Technology Integration

8.1.5.A.2 Format a document using a word processing application to enhance text and include graphics, symbols and/ or pictures.

Activity:
Students will create their own one-step word problem. They will type the problem in Google Classroom and choose an image related to the problem. Once completed, students will solve their classmates' problems.

## Enduring Understandings

## Operations and Algebraic Thinking

4.OA.A. 1 [M] Interpret a multiplication equation as a comparison, e.g., interpret $35=5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5 . Represent verbal statements of multiplicative comparisons as multiplication equations.
4.OA.A. 2 [M] Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing
multiplicative comparison from additive comparison.
4.OA.A. 3 [M] 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 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.
4.NBT.B. 6 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

## Mathematical Practices Focus

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