



Marietta City Schools District Topic Planner

Fourth Grade

Topic Title	<i>Topic 6: Use Operations with Whole Numbers to Solve Problems</i>	Unit duration	<i>10 days</i>
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Big Idea: Operations and Algebraic Thinking - Problem Solving

[Georgia Standards of Excellence](#)

- **4.OA.1** Understand that a multiplicative comparison is a situation in which one quantity is multiplied by a specified number to get another quantity.
 - a. 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.
 - b. Represent verbal statements of multiplicative comparisons as multiplication equations.
- **4.OA.2** Multiply or divide to solve word problems involving multiplicative comparison. Use drawings and equations with a symbol or letter for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.¹⁷
¹⁷See *Glossary, Table 2*.
- **4.OA.3** Solve multistep word problems with whole numbers and have whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a symbol or letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

■ Major work of the grade □ Supporting standard ● Additional standard

Informational Links

- [GSE Unit 2 Frameworks: Multiplication and Division of Whole Numbers](#)
- [MCS Math Instructional Framework](#)
- [MCS Math Instructional Framework with Resource Guidance](#)

About the Math

Topic 6: Learning Resources			
4.OA.1, 4.OA.2, 4.OA.3			
Lesson Number/Task/Module	Lesson	Lesson Description	Standards Addressed
Savvas 6-1	Solve Comparison Situations Savvas pp. 221-228	Students will interpret comparisons as multiplication or addition equations.	4.OA.1 4.OA.2
Supplemental 6-1	Introducing Multiplicative Comparison MIP Module 1 pp. 13-16	Students extend their understanding of multiplication to include comparisons.	4.OA.1 4.OA.2
Savvas 6-2	Continue to Solve Comparison Problems Savvas pp. 229-232	Students will use multiplication and division to compare two quantities.	4.OA.1 4.OA.2
Supplemental 6-2	Sorting Problems MIP Module 1 pp. 16-18	Students sort multiplicative word problems.	4.OA.1 4.OA.2
Savvas 6-3	Model Multi- Step Problems Savvas pp. 233-236	Students will solve multi-step problems by finding the hidden questions and using bar diagrams and equations.	4.OA.1 4.OA.2 4.OA.3
Supplemental 6-3	Illustrative Math Carnival Tickets	Students solve a multi-step word problem.	4.OA.1 4.OA.2 4.OA.3
Savvas 6-5	Solve Multi-Step Problems Savvas pp.241-244	Solve multi-step problems by writing and solving one or more equations.	4.OA.1 4.OA.2 4.OA.3
Supplemental 6-5	Exploring Rich Problems MIP Module 15 pp. 346-347	Students explore a multi- step word problem.	4.OA.1 4.OA.2 4.OA.3

Additional Resources		
4.OA.1, 4.OA.2, 4.OA.3		
Standards Addressed	Lesson	Lesson Description
4.OA.1-5, 4.NBT.5-6	GaDOE Culminating Task: School Newspaper	Students plan how much paper to purchase in order to stay within a budget when producing a school newspaper.
4.NBT.4 and 4.NBT.5	GaDOE 3-ACT Task: Boxes and Rolls	Students multiply and divide whole numbers to determine how many pennies are equivalent to the amount of money shown in an image.

Assessment Resources			
4.OA.1, 4.OA.2, 4.OA.3			
Type	Location	Assessment Description	Standards Addressed
Formative	MCS Mini	Students solve word problems using multiplicative comparison.	4.OA.1
Formative	MCS Mini	Students use multiplicative comparison to solve a word problem.	4.OA.1
Formative	MIP Module 1 p. 19	Students solve a multiplicative comparison problem using a diagram.	4.OA.1
Formative	MIP Module 1 p. 21	Students use a model and equation to match a multiplicative comparison word problem.	4.OA.1
Formative	MIP Module 15 p. 349	Students solve a multi-step problem requiring multiple operations.	4.OA.3
Summative	Savvas Topic Assessment TE pp. 253-254	Students solve multi-step problems and problems involving multiplicative comparison. Digital and print form available through Savvas platform.	4.OA.1 4.OA.2 4.OA.3
Summative	Savvas Topic Performance Task TE pp.255-256	Students use a real-life scenario involving selling and purchasing a bike using multiple operations to solve.	4.OA.1 4.OA.2 4.OA.3

