



Nevada Mathematics Standards

Matched to

Skills Tutor and CornerStone Mathematics A

Grades 3-4

Numbers, Number Sense, and Computation

Content Standard 1.0: To solve problems, communicate, reason, and make connections within and beyond the field of mathematics, students will accurately calculate and use estimation techniques, number relationships, operations rules, and algorithms; they will determine the reasonableness of answers and the accuracy of solutions.

1.3.1 Immediately recall and use addition, subtraction, and multiplication facts to 81.

Using addition and subtraction:

Lesson 1 – Basic Addition Facts

Worksheet –Basic Addition Facts Lesson 1

Lesson 2 – Basic Subtraction Facts

Worksheet –Basic Subtraction Facts Lesson 2

Lesson 3 – Open Sentences

Worksheet –Open Sentences Lesson 3

Using Multiplication and Division:

Lesson 1 – Basic Multiplication Facts

Worksheet –Basic Multiplication Facts Lesson 1

Lesson 2 – Basic Division Facts

Work sheet –Basic Division Facts Lesson 2

Lesson 3 – Open Sentences

Worksheet –Open Sentences Lesson 3

1.4.1 Immediately recall and use multiplication and corresponding division facts through 12.

Using Multiplication and Division:

Lesson 1 –Basic Multiplication Facts

Worksheet –Basic Multiplication Lesson 1

Lesson 2 –Basic Division Facts

Worksheet –Basic Division Facts Lesson 2

Lesson 3 –Open Sentences

Worksheet –Open Sentences Lesson 3

1.3.2 Add and subtract multi-digit numbers without regrouping.

Using addition and subtraction:

Lesson 1 –Basic Addition Facts

Worksheet –Basic Addition Lesson 1

Lesson 2 –Basic Subtraction Facts

Worksheet –Basic Subtraction Facts Lesson 2

Lesson 3 –Open Sentences
Worksheet –Open Sentences Lesson 3
Lesson 4 –Estimation by Rounding
Worksheet –Estimation by Rounding Lesson 4
Lesson 5 –Addition
Worksheet –Addition Lesson 5
Lesson 6 –Subtraction
Worksheet –Subtraction Lesson 6

1:4:4 Multiply and divide money amounts by a one-digit whole number producing a solution with no remainder.

Using Decimals and Fractions
Lesson 5 –Multiplication of Decimals
Worksheet –Multiplication of Decimals Lesson 5
Lesson 6 –Division of Decimals
Worksheet –Division of Decimals Lesson 6

1:3:5 Model and explain multiplication, including as repeated addition.

Using Multiplication and Division
Lesson 1 –Basic Multiplication Facts
Worksheet –Basic Multiplication Facts Lesson 1
Lesson 2 –Basic Division Facts
Worksheet –Basic Division Facts Lesson 2

1:4:5 Multiply and divide multi-digit numbers by a one-digit number with regrouping, model and explain division including as repeated subtraction.

Using Multiplication and Division
Lesson 5 –One-Digit Multipliers
Worksheet –One-Digit Multipliers Lesson 5
Lesson 6 –One-Digit Divisors
Worksheet –One-Digit Divisors Lesson 6

1:3:6 Read, write, order, and compare numbers from 0-999: read and write numbers.

Understanding Numbers
Lesson 2 –Numbers and Word Names
Worksheet –Numbers and Word Names Lesson 2
Lesson 3 –Comparing and Ordering Numbers

1:4:6 Read, write, order, and compare whole numbers.

Understanding Numbers
Lesson 2 –Numbers and Word Names
Worksheet –Numbers and Word Names Lesson 2

Lesson 3 –Comparing and Ordering Numbers
Worksheet –Comparing and Ordering Numbers Lesson 3

1:3:7 Round to nearest tens and hundreds to determine reasonableness of the answer; read and write numbers words.

Using Addition and Subtraction

Lesson 4 –Estimation by Rounding
Worksheet –Estimation by Rounding Lesson 4
Using Multiplication and Division
Lesson 4 –Estimation by Rounding
Worksheet –Estimation by Rounding Lesson 4

1:4:7 Use estimation to determine the reasonableness of an answer.

Using Addition and Subtraction
Lesson 4 –Estimation by Rounding
Worksheet –Estimation by Rounding Lesson 4

Using Multiplication and Division
Lesson 4 –Estimation by Rounding
Worksheet –Estimation by Rounding Lesson 4

1:3:8 Use, model, and identify place value positions up to 10,000.

Understanding Numbers
Lesson 1 –Place Value
Worksheet –Place Value Lesson 1
Lesson 2 –Numbers and Word Names
Worksheet –Numbers and Word Names Lesson2

1:3:9 Model, Sketch, and label fractions with denominators to 10; write fractions with numbers and words.

Using Decimals and Fractions
Lesson 1 –Fractions
Worksheet –Fractions Lesson 1

1:4:8 Use and identify place value positions of whole numbers.

Understanding Numbers
Lesson 2 –Numbers and Word Names
Worksheet –Numbers and Word Names Lesson 2

1:4:9 Identify and compare fractions with like denominators using numbers, models, and drawings.

Using Decimals and Fractions
Lesson 3 –Addition of Decimals
Worksheet –Addition of Decimals Lesson 3
Lesson 8 –Addition of Fractions
Worksheet –Addition of Fractions Lesson 8
Lesson 9 –Subtraction of Fractions
Worksheet –Subtraction of Fractions Lesson 9

Patterns, Functions, and Algebra

Content Standard 2.0: To solve problems, communicate, reason, and make connections within and beyond the field of mathematics, students will use various algebraic methods to analyze, illustrate, extend, and create numerous

representations (words, numbers, tables, and graphs) of patterns, functions, and algebraic relations as modeled in practical situations.

2:2:1 Recognize, describe, extend, and create repeating and increasing patterns using symbols, objects, and manipulatives; use patterns and their extensions to solve problems.

Using Addition and Subtraction
Lesson 7 –Patterns
Worksheet –Patterns Lesson 7

2:3:1 Recognize, describe, and create patterns using numbers; use number patterns and their extensions to solve problems.

Using Addition and Subtraction
Lesson 7 –Patterns
Worksheet –Patterns Lesson 7

2:3:3 Identify missing terms and missing numbers in open number sentences involving number facts in addition and subtraction.

Using Addition and Subtraction
Lesson 1 –Basic Addition Facts
Worksheet –Basic Addition Facts Lesson 1
Lesson 2 –Basic Subtraction Facts
Worksheet –Basic Subtraction Facts Lesson 2
Lesson 3 –Open Sentences
Worksheet –Open Sentences Lesson 3

Measurement

Content Standard 3.0: To solve problems, communicate, reason and connections within and beyond the field of mathematics, students will use appropriate tools and techniques of measurement to determine, estimate, record, and verify direct and indirect measurements.

3:3:3 Estimate and use measuring devices with standard and nonstandard units to measure length, surface area, liquid volume, capacity, temperature, and weight, communicating the concepts of more, less, and equivalent.

Understanding Numbers
Lesson 4 –Temperature
Worksheet –Temperature Lesson 4

Data Analysis

Content Standard 5.0: To solve problems, communicate, reason, and make connections within and beyond the field of mathematics, students will collect, organize, display, interpret, and analyze data to determine statistical relationships and probability projections.

5:3:1 Collect, organize, display, and describe simple data using number lines, pictographs, bar graphs, and frequency tables.

Working with Data

Lesson 1 –Pictographs

Worksheet –Pictographs Lesson 1

Lesson 2 –Bar Graphs

Worksheet –Bar Graphs Lesson 2

Worksheet –Place Value Lesson 1

Worksheet –Comparing and Ordering Numbers Lesson 3

Worksheet –Using Addition and Subtraction: Lesson 3, Lesson 4, Lesson 6, Lesson 7

Worksheet –Using Multiplication and Division: Lesson 1, Lesson 2, Lesson 3, Lesson 4, Lesson 5, Lesson 6, Lesson 7, Lesson 8

Worksheet –Working with Data: Lesson 2, Lesson 3, Lesson 4, Lesson 5

Worksheet: Smart Ideas: Math and Science Vocabulary: Lesson 6

5:4:1 Collect, organize, display, describe, and interpret simple data using number lines, pictographs, bar graphs, and frequency tables.

Working with Data

Lesson 1 –Pictographs

Worksheet –Pictographs Lesson 1

Lesson 2 –Bar Graphs

Worksheet –Bar Graphs Lesson 2

Worksheet: Smart Ideas: Using Addition and Subtraction: Lesson 6

Problem Solving

Process Standard 6.0: Students will develop their ability to solve problems by engaging in developmentally appropriate problem solving opportunities in which there is a need to use various approaches to investigate and understand mathematical concepts in order to: formulate their own problems; find solutions to problems from everyday situations; develop and apply strategies to solve a wide variety of problems; and integrate mathematical reasoning, communication and connections.

6:1 Select, modify, develop, and apply strategies to solve a variety of mathematical and practical problems and to investigate and understand mathematical concepts.

6:2 Apply previous experience and knowledge to new problem-solving situations.

Understanding Numbers

Worksheets: Lessons 1-4

Using Addition and Subtraction

Worksheets: Lessons 1-7

Using Multiplication and Division

Worksheets: Lessons 1-8

Using Decimals and Fractions

Worksheets: Lessons 1-10

Working with Data: Worksheets: Lessons 1-5

6:4 Explain and verify results with respect to the original problems.

Understanding Numbers

Worksheet: Write Idea: Lesson 1

Using Addition and Subtraction

Worksheet: Write Idea: Lesson 1

Using Multiplication and Division

Worksheet: Write Idea: Lesson 3

Using Decimals and Fractions

Worksheet: Write Idea: Lesson 8

Mathematical Communication

Process Standard 7.0: Students will develop their ability to communicate mathematically by solving problems in which there is a need to obtain information from the real world through reading, listening, and observing in order to: translate this information into a mathematical language and symbols; process this information mathematically; and present results in written, oral, and visual forms.

7:2 Use inquiry techniques (e.g. discussion, questioning, research, data gathering) to solve mathematical problems.

Using Addition and Subtraction:

Worksheet: Write Idea: Lesson 4

Using Multiplication and Division

Worksheet: Write Idea: Lesson 4

Using Decimals and Fractions

Worksheet: Write Idea: Lesson 4

7.7 Use physical materials, models, pictures, or writing to represent and communicate mathematical ideas.

Using Addition and Subtraction

Worksheet: Smart Idea: Lesson 7

Using Multiplication and Division

Worksheet: Smart Idea: Lesson 2

Using Decimals and Fractions

Worksheet: Smart Idea: Lesson 7

7:8 Use physical material, diagrams, and tables to represent and then communicate mathematical ideas through oral, verbal, and written formats.

Working with Data

Worksheet: Smart Idea: Lesson 1

Worksheet: Smart Idea: Lesson 2

Worksheet: Write idea: Lesson 3

Worksheet: Write idea: Lesson 4

Worksheet: Smart idea: Lesson 5

Mathematical Reasoning

Process Standard 8.0: Student will develop their ability to reason mathematically by solving problems in which there is a need to investigate significant mathematical ideas and construct their own learning in all content areas in order to justify their thinking; reinforce and extend their logical reasoning abilities; reflect on and clarify their own thinking; and ask questions to extend their thinking.

8:1 *Justify and explain the solutions to problems using manipulative and physical models.*

8:4 *Use patterns and relationships to analyze mathematical situations; draw logical conclusions about mathematical problems.*

Using Addition and Subtraction

Worksheet: Lesson 7

Using Multiplication and Division

Worksheet: Lesson 2

Using Decimals and Fractions

Worksheet: Lesson 8

Worksheet: Lesson 9

Mathematical Connections

Process Standard 9.0: Students will develop the ability to make mathematical connections by solving problems in which there is a need to view mathematics as an integrated whole, identifying relationships between context strands, and integrating mathematics with other disciplines, allowing the flexibility to approach problems in a variety of ways within and beyond the field of mathematics.

9:8 *Identify, explain, and use mathematics in everyday life.*

Understanding Numbers

Worksheet: Smart Idea: Lesson 2

Worksheet: Write Idea: Lesson 4

Using Addition and Subtraction

Worksheet: Write Idea: Lesson 2

Worksheet: Write Idea: Lesson 4

Using Multiplication and Division

Worksheet: Write Idea: Lesson 4

Worksheet: Write Idea: Lesson 6

Using Decimals and Fractions

Worksheet: Smart Idea: Lesson 3

Worksheet: Write Idea: Lesson 4