

# TABLE OF CONTENTS - -

Unit 1 -	<b>Fraction</b>	<b>Operations</b>
----------	-----------------	-------------------

Lesson A: Adding and Subtracting Fractions
with a Common Denominator1
How is combining fractions like combining whole numbers, and
how is it different?
Lesson B: Adding and Subtracting Fractions
with Unlike Denominators11
How do you add and subtract fractions when they do not have the same denominator?
Lesson C: Adding Improper Fractions
and Mixed Numbers
Lesson D: Subtracting Improper Fractions
and Mixed Numbers31
How do you regroup when you subtract improper fractions and
mixed numbers?
Lesson E: Applications of Addition
and Subtraction
<b>Lesson F: Understanding Fraction Multiplication</b> 51
What strategies can you use to multiply a whole number by a fraction?
Lesson G: Multiplying Fractions61
How do you multiply a fraction by a fraction?
<b>Lesson H: Fraction Division</b>
What does dividing by a fraction represent?
Lesson I: Applications of Multiplication
and Division81
When do you multiply and divide fractions in the real world?
<b>Lesson J: Choosing an Operation</b>

### Unit 2 – Percents

Lesson A: Percents	101
Lesson B: Percents and Fractions	111
Lesson C: Fractions, Decimals, and Percents	121
Lesson D: Comparing Data from Sets of Different Sizes How do you compare data that describes sets of different sizes?	131
<b>Lesson E: Common Percents: 25% and 50%</b>	141
Lesson F: Common Percents: 10% and 1%	
Lesson G: Multiplying by Percents	161
<b>Lesson H: Applications of Percents to Money</b>	171
<b>Lesson I: Simple and Compound Interest</b>	181
Lesson J: Percent Change	191

## **Unit 3 – Operations on Rational Numbers**

<b>Lesson A: Positive and Negative Numbers</b>
Lesson B: Adding Integers
Lesson C: Subtracting Integers
Lesson D: Multiplying and Dividing Integers
<b>Lesson E: Comparing Rational Numbers</b> 241 Where do positive and negative fractions fall on the number line?
Lesson F: Adding and Subtracting Improper Fractions and Mixed Numbers
How do you regroup to add and subtract improper fractions and mixed numbers?
Lesson G: Multiplying and Dividing Improper Fractions and
Mixed Numbers
Lesson H: Adding and Subtracting
<b>Rational Numbers</b>
Lesson I: Multiplying and Dividing
Rational Numbers
<b>Lesson J: Exponents</b>

## **Unit 4 – Variables and Number Properties**

<b>Lesson A: Variables</b>
<b>Lesson B: Evaluating Expressions</b>
<b>Lesson C: Representing Multiplication</b> and Division
Lesson D: Expressions with More Than
One Operation
<b>Lesson E: The Order of Operations</b>
Lesson F: Expressions with More Than One Unknown
<b>Lesson G: The Commutative Property</b>
<b>Lesson H: The Associative Property</b>
<b>Lesson I: The Distributive Property</b>
<b>Lesson J: Simplifying Expressions</b>

## Unit 5 – Three-Dimensional Geometry

<b>Lesson A: Understanding Surface Area</b>
<b>Lesson B: Surface Area of a Pyramid</b> 411 How can you calculate the surface area of a pyramid?
<b>Lesson C: Surface Area of a Cylinder</b>
<b>Lesson D: Applications of Surface Area</b>
<b>Lesson E: Understanding Volume</b>
<b>Lesson F: Volume of a Rectangular Prism</b> 451 How can you calculate the volume of a rectangular prism?
<b>Lesson G: Volume of a Triangular Prism</b>
<b>Lesson H: Volume of a Pyramid</b>
<b>Lesson I: Volume of a Cylinder</b>
<b>Lesson J: Applications of Volume</b>

## Unit 6 – Probability

How do you find the likelihood of an event without doing an experiment?
<b>Lesson B: Experimental Probability</b>
<b>Lesson C: Representing Probabilities</b>
<b>Lesson D: Complementary Events</b>
<b>Lesson E: Making Predictions</b>
<b>Lesson F: Independent Compound Events</b>
<b>Lesson G: Dependent Compound Events</b>
<b>Lesson H: Applications of Compound Events</b>
<b>Lesson I: The Fundamental Counting Principle</b>
<b>Lesson J: Combinations and Permutations</b>