

Chapter	1: Numbers	
1.1	Exponential Notation	4
1.2	Whole Numbers	5
1.3	Integers	6
1.4	Order of Operations	7
1.5	Common Factors and Common Multiples	8
1.6	Squares and Square Roots	10
1.7	Rational Numbers	11
Chapter	2: Fractions, Decimals, and Percents	
2.1	Addition and Subtraction of Fractions	12
2.2	Multiplication of Fractions	13
2.3	Division of Fractions	14
2.4	Multiplication and Division of Decimals	15
2.5	Percents	16
2.6	Equivalent Forms of Fractions, Decimals, and Percents	17
Chapter	3: Proportions and Rates	
3.1	Proportions	18
3.2	Rates	19
Chapter	4: Circles and Cylinders	
4.1	Constructing Circles	20
4.2	Circumference of Circles	22
4.3	Area of Circles	23
4.4	Volume of Cylinders	24
4.5	Surface Area of Cylinders	27
4.6	Volume and Surface Area of Cylinders	28

Chapter	5: 2-D and 3-D Geometry	
5.1 5.2 5.3	Sorting and Classifying Quadrilaterals Properties of Similar Figures Properties of 3-D Figures	29 30 32
Chapter	6: Properties of Triangles	
6.1 6.2	Related Angles Pythagorean Relationship	33 35
Chapter	7: Locations and Movements	
7.1 7.2	Graphing on Cartesian Coordinate Planes Transformations	36 37
Chapter	8: Patterning	
8.1 8.2	Representing Linear Patterns Graphing Linear Patterns	39 40
Chapter	9: Expressions and Equations	
9.1 9.2	Evaluating Algebraic Expressions Solving Equations	41 42
Chapter	10: Data Management	
10.1	Analyzing Graphs	44
10.2	Representing Data in Graphs	46
Chapter	11: Probability	
11.1	Finding Probability	48
11.2	Theoretical Probability and Experimental Probability	49
Applicat	tion Answers	51

Chapter 1 Numbers

1.1 Exponential Notation

Exponential notation is a simplified way of expressing repeated multiplication. It is particularly useful when writing large numbers. In this unit, your child will learn to write numbers in exponential notation and solve problems involving exponents.

For 2³, we say "2 to the power of 3" or "2 to the third power".





Writing numbers to the power of 10 is a very useful way of expressing large numbers such as 1 million and 10 billion.



1.2 Whole Numbers

Your child has learned to write whole numbers in standard form, expanded form, and words. In this unit, he or she will learn to express whole numbers in expanded form as powers of ten. Encourage your child to use a place value chart to record numbers. This can help him or her visualize the value of each digit and read numbers in groups of three.

