



Level 1  
Level 2  
Level 3

# Topic List Side 2

## Fraction Introduction

### Divisibility, prime number topics

Divisibility by 2, 3 and 5  
Divisibility by 2, 3, 4, 5 and 6  
Prime numbers

### GCF, LCM and LCD topics

Greatest common factor  
Greatest common factor: advanced  
Least common multiple  
Least common multiple: advanced  
Least common denominator  
Least common denominator: advanced

### Reducing, converting, etc. topics

Reducing fractions  
Reducing fractions: advanced  
Converting improper fractions to mixed  
Converting mixed fractions to improper

### Proportions, etc. topics

Proportions  
Proportions—advanced  
Simplest form (reduced and mixed)  
Comparing fractions  
Fraction topics combination

## Fractions

### Computing with like fractions topics

Fractions: adding likes  
Fractions: adding likes—advanced  
Fractions: subtracting likes  
Fractions: adding and subtracting likes

### Computing with fractions topics

Fractions: adding  
Fractions: subtracting  
Fractions: adding and subtracting  
Fractions: multiplying (proper)  
Fractions: multiplying  
Fractions: dividing  
Fractions: multiplying and dividing  
Fractions: add / sub / mul / div

## Decimals

### Naming and rounding decimals topics

Decimals: naming  
Decimals: rounding

### Decimal computing topics: level 1

Decimals: adding  
Decimals: subtracting  
Decimals: adding and subtracting  
Decimals: multiplying  
Decimals: dividing  
Decimals: multiplying and dividing  
Decimals: add / sub / mul / div

### Decimal computing topics: level 2

Decimals: advanced—adding  
Decimals: advanced—subtracting  
Decimals: advanced—add / sub  
Decimals: advanced—multiplying  
Decimals: advanced—dividing  
Decimals: advanced—mul / div  
Decimals: advanced—add / sub / mul / div

## Percents

### Converting topics

Converting fractions to percents  
Converting percents to fractions  
Converting fractions to decimals  
Converting decimals to fractions  
Converting between percents and decimals  
Converting percents, decimals and fractions

### Computing with percents topics

Estimating percents  
Finding 50%, 100% and 200% of a number  
Finding percents of numbers related to 100  
What is N% of B?  
A is what percent of B?  
A is N% of what number?  
Combination of percent computation topics

## Estimation Preparation

### Doubling, halving topics

Doubling: level 1  
Doubling: level 2  
Halving: level 1  
Halving: level 2  
Multiplying by 2

"Estimation Preparation" and "Math Strategies" topics are designed to help students with estimation.

### Rounding topics

Rounding to the nearest 10  
Rounding to the nearest 100  
Rounding to the nearest 1000  
Rounding decimals

### Multiplication brush-up topics

Squares through 12 x 12  
Squares through 20 x 20  
Squares through 25 x 25

### Converting and reducing topics

Converting fractions to decimals  
Converting decimals to fractions

## Math Strategies

### Multiplication and division strategies topics

Multiplying by 4  
Dividing by 4  
Multiplying by 5  
Multiplying by 11

Level 1  
Level 2  
Level 3

Level 1 = Grades K-3

Level 2 = Grades 4-6

Level 3 = Grades 6-9

### (Strategies topics continued)

Multiplying by 21  
Multiplying by 25  
Dividing by 25

### Advanced strategies topics

Same 10's digits but 1's digits add to 10  
Same 1's digits but 10's digits add to 10  
Numbers differing by 2: level 1  
Numbers differing by 2: level 2  
Numbers differing by 2, 4, 6

## Estimation

### Estimating with whole numbers topics

Addition: level 1  
Addition: level 2  
Subtraction  
Multiplication: level 1  
Multiplication: level 2  
Division: level 1  
Division: level 2  
Combination: level 1  
Combination: level 2

### Adding multiple numbers topics

Add multiple numbers: level 1  
Add multiple numbers: level 2

### Estimating with fractions topics

1/2 of a number  
1/3 of a number  
1/4 of a number  
1/5 of a number  
Combination: level 1  
Combination: level 2  
Numerators greater than 1

### Estimating with decimals topics

Finding a decimal: level 1  
Finding a decimal: level 2  
Finding a decimal: level 3

### Estimating with percents topics

50% of a number  
33% of a number  
25% of a number  
20% of a number  
Estimating a percent: combo level 1  
Estimating a percent: combo level 2

### Special percent topics

Changing a number by a percent: level 1  
Changing a number by a percent: level 2  
Changing a number by a percent: level 3  
Estimating the percent increase

### Estimating with money topics

Round to nearest dollar  
Estimate total cost: level 1  
Estimate total cost: level 2  
Estimating savings at sales

## Integers

### Integer introduction topics

Integers: comparing sizes  
Integers: signs only—add / sub  
Integers: signs only—mul / div  
Integers: signs only—add / sub / mul / div

### Integer computing topics: level 1

Integers: adding  
Integers: subtracting  
Integers: adding and subtracting  
Integers: multiplying  
Integers: dividing  
Integers: multiplying and dividing  
Integers: add / sub / mul / div

### Integer computing topics: level 2

Integers: intermediate adding  
Integers: intermediate subtracting  
Integers: intermediate add / sub  
Integers: intermediate multiplying  
Integers: intermediate dividing  
Integers: intermediate mul / div  
Integers: intermediate—add / sub / mul / div

### Integer computing topics: level 3

Integers: advanced add / sub  
Integers: advanced mul / div  
Integers: mixed operations ( $-2 + 3 \times 4$ )

## Equations

### Equations introduction topics

Evaluating number phrases  
Evaluating with integers  
Simplifying number phrases

### Equations with whole numbers topics

Equations: whole numbers—add  
Equations: whole numbers—sub  
Equations: whole numbers—add / sub  
Equations: whole numbers—mul  
Equations: whole numbers—div  
Equations: whole numbers—mul/div  
Equations: whole numbers—add / sub / mul / div  
Equations: whole numbers—two operations

### Equations with integers topics

Equations: integers—add  
Equations: integers—sub  
Equations: integers—add / sub  
Equations: integers—multiplying  
Equations: integers—dividing  
Equations: integers—mul / div  
Equations: integers—add / sub / mul / div  
Equations: integers—two operations  
Equations: fractional coefficients