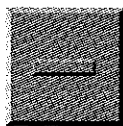




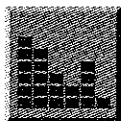
1. NUMBER THEORY

word numbers through hundred billion
(review) expanded form through hundred billion
(review) Roman numerals
divisibility
prime and composite
prime factorization
*factor trees (slight introduction before)
*exponents (slight introduction before)



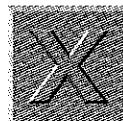
5. SUBTRACTION

*subtraction properties
*subtraction terms
*basic facts
*subtraction with two-, three-, four-, five-, and six-digit numbers
equations
estimating
subtracting money
more than one operation



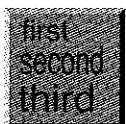
2. PLACE VALUE

ones, tens, hundreds
thousands, ten thousands, hundred thousands
millions, ten millions, hundred millions
billions, ten billions, hundred billions



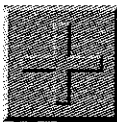
6. MULTIPLICATION

*multiplication terms
*multiplication facts
*multiplication properties
two-digit times two-digit numbers
triple-digit times a single digit numbers
*three-digit times three-digit numbers
multiplying by 10, 100, and 1000
money by two-digit number
missing factors
estimating products
*exponents



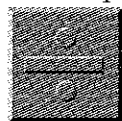
3. NUMBER ORDER

*rounding to the nearest 10
*rounding to the nearest 100
*rounding to the nearest 1,000
*greater than and less than
*equal and not equal



4. ADDITION

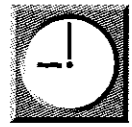
*addition properties
*addition terms
*addition facts
*addition with two-, three-, four-, five-, and six-digit numbers
equations
column addition
missing addends
estimating
adding money
more than one operation



7. DIVISION

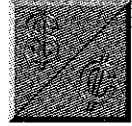
*division terms
*division facts
*division properties
one-digit dividend by one-digit divisor with remainders
two-digit dividend by one-digit divisor
dividing money
zeros in the quotient
two-digit divisors that are multiples of ten
two-digit divisors with one-digit quotients
two-digit divisors when the guess is incorrect
two-digit divisors with two digit-quotients
estimating quotients
*three-digit quotients with remainders
*averaging with remainders

* new concepts



8. TIME

terms
AM, PM
century
time equivalents
elapsed time
calendar
time zones



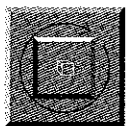
9. MONEY

money will be covered under addition, subtraction, multiplication, and division
counting change



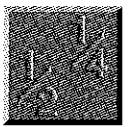
10. GEOMETRY

shapes, solids and diagonals
symmetry
*congruent and similar figures
*congruent segments and angles
line, line segment, ray, endpoint, plane
parallel, intersecting, perpendicular lines
angles—rays, vertex, acute, obtuse, right
*circles: diameter, radius, and chord
*compass
*protractor
*types of triangles
*classifying polygons



11. PERIMETER, AREA, AND VOLUME

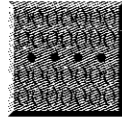
perimeter
area
volume
*surface area



12. FRACTIONS

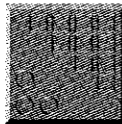
equivalent fractions
greatest common factor
reducing fractions
comparing and ordering fractions
adding and subtracting fractions with common denominators
mixed numbers
improper fractions

*least common multiples
*adding and subtracting fractions with unlike denominators
*adding and subtracting mixed numbers without regrouping
*renaming mixed numbers
*adding mixed numbers, renaming fractions
*more renaming
*subtracting mixed numbers with common denominators—borrowing from whole numbers
*subtracting mixed numbers with unlike denominators—borrowing from whole numbers
*multiplying fractions with whole numbers
*multiplying two fractions together
*multiplying mixed numbers together
*dividing whole numbers by fractions
*dividing fractions by whole numbers
*dividing fractions by fractions



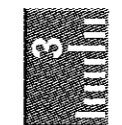
13. DECIMALS

fractions to decimals
*word numbers to thousandths
*comparing decimals
*ordering decimals
add decimals (horizontally and vertically)
subtracting decimals
estimating decimals
estimating decimals with money
*multiplying decimals by whole numbers
*multiplying decimals by decimals
*dividing decimals by whole numbers



14. RATIO

writing simple ratios
multiplying to find equal ratios
dividing to find equal ratios
*cross products

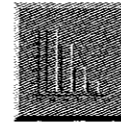


15. MEASUREMENT

standard and metric linear equivalent
standard and metric liquid equivalent
standard and metric weight equivalent
temperature reading and understanding Fahrenheit and Celsius

* new concepts

millimeter, centimeter, decimeter, meter
decameter, hectometer, kilometer



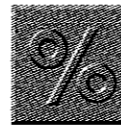
16. GRAPHS

bar
line
pictographs
circle
coordinate graphs
comparing graphs
*mean, mode, median



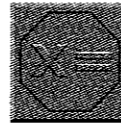
17. EQUATIONS

addition
subtraction
multiplication
division



18. PERCENT

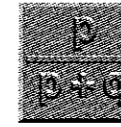
*understanding the concept
*finding the percent of a number
*percent and decimals
*percent and fractions
*discount and sales tax
*fractions as percent



19. PROBLEM SOLVING

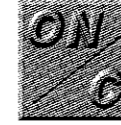
Four-step method
understanding the question
choosing an operation
reasonable or unreasonable
too much/too little information
Guess and Check
understanding remainders
making organized lists
working backwards
Make it Simpler
logical reasoning
drawing a picture

*new concepts



20. PROBABILITY

one variable



21. CALCULATOR MATH

problem solving with calculators