

Optimum Resource Inc.'s MiddleWare Software

California Standards - Third Grade Mathematics	Math Word Problems
<b>NUMBER SENSE</b>	
<b>1.0 Students understand the place value of whole numbers</b>	
Count, read, & whole numbers to 10,000	
Compare & order whole numbers to 10,000	
Identify the place value for each digit in numbers to 10,000	
Round off numbers to 10,000 to the nearest ten, hundred, and thousand	
Use expanded notation to represent numbers	
<b>2.0 Students calculate and solve problems involving addition, subtraction, multiplication and division</b>	✓
Find the sum or difference of two whole numbers between 0 and 10,000	✓
Memorize to automaticity the multiplication table for numbers between 1 and 10	✓
Use the inverse relationship of multiplication and division to compute & check results	✓
Solve simple problems involving multiplication of multidigit numbers by one digit numbers	
Solve division problems in which a multidigit number is evenly divided by a one digit number	✓
Understand the special properties of 0 & 1 in multiplication & division	
Determine the unit cost when given the total cost & number of units	✓
Solve problems that require two or more of the skills mentioned above	✓
<b>3.0 Students understand the relationship between whole numbers, simple fractions, and decimals</b>	✓
Compare fractions represented by drawings or concrete materials to show equivalency	
& to add and subtract simple fractions in context	
Add and subtract simple fractions	

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Solve Problems involving addition, subtraction, multiplication, & division of money amounts	✓
in decimal notation & multiply and divide money amounts in decimal notation by using	
whole-number multipliers and divisors	
Know & understand that fractions & decimals are two-different representations	
of the same concept	
<b>ALGEBRA AND FUNCTIONS</b>	
<b>1.0 Students select appropriate symbols, operations, and properties to represent, describe, simplify, &amp; solve number relationships</b>	✓
Represent relationships of quantities in the form of mathematical expressions,	✓
equations, or inequalities	
Solve problems involving numeric equations or inequalities	
Select appropriate operational & relational symbols to make an expression true ( $4 \_ 3 + 12$ )	✓
Express simple unit conversions in symbolic form	
Recognize & use the commutative and associative properties of multiplication	
<b>2.0 Students represent simple functional relationships</b>	
Solve simple problems involving a functional relationship between two quantities	✓
Extend & recognize a linear pattern by its rules	
<b>MEASUREMENT AND GEOMETRY</b>	
<b>1.0 Students choose and use appropriate units and solid geometric figures &amp; use their understanding to relationships &amp; solve problems</b>	
Choose the appropriate tools & units & estimate & measure the	
length, liquid volume, & weight/mass of given objects	
Estimate or determine the area & volume of solid figures by covering them	
Find the perimeter of a polygon with integer sides	
Carry out simple unit conversions within a system of measurement	

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<b>2.0 Students describe &amp; compare the attributes of plane &amp;</b>	
Identify, describe, & classify polygons	
Identify attributes of triangle	
Identify attributes of quadrilaterals	
Identify right angles in geometric figures or in appropriate objects & determine whether	
other angles are greater or less than a right	
Identify, describe, and classify common three-dimensional geometric objects	
Identify common solid objects that are the components needed to make a more	
complex solid object	
<b>STATISTICS, DATA ANALYSIS, &amp; PROBABILITY</b>	
<b>1.0 Students conduct simple probability experiments by determining the number of possible outcomes &amp; simple predictions</b>	
Identify whether common events are certain, likely, unlikely, or improbable	
Record the possible outcomes for a simple event & systematically keep track of the	
outcomes when the event is repeated many times	
Summarize & display the results of probability experiments in a clear & organized way	
Use the results of probability experiments to predict future events	
<b>MATHEMATICAL REASONING</b>	
<b>1.0 Students make decisions about how to approach problems</b>	
Analyze problems by identifying relationships, distinguishing relevant from irrelevant	
information, sequencing & prioritizing information, & patterns irrelevant information,	
sequencing & prioritizing information, & observing	
Determine when and how to break a problem into simpler parts	
<b>2.0 Students use strategies, skills, &amp; concepts in finding solutions</b>	✓
Use estimation to verify the reasonableness of calculated results	
Apply strategies & results from simpler problems to more complex problems	✓

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Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams & models, to explain mathematical reasoning	✓
Estimate unknown quantities graphically & solve for them by using logical reasoning & arithmetic & algebraic techniques	
Express the solution clearly & logically by using the appropriate mathematical notation & terms & clear language; support solutions with evidence verbal symbolic work	✓
Indicate the relative advantages of exact & approximate solutions to problems & give answers to a specified degree of accuracy	
Make precise calculations & check the validity of the results from the context of the problem	✓
<b>3.0 Students move beyond a particular problem by generalizing to other situations</b>	
Evaluate the reasonableness of the solution in the context of the original situation	
Note the method of deriving the solution & demonstrate a conceptual understanding of the derivation by solving similar problems	
Develop generalizations of the results obtained & apply them in other circumstances	