

Optimum Resource Inc. Educational Software and Print Resources

	Math Word Problems
Illinois Standards - Fourth Grade Mathematics	
Demonstrate and apply a knowledge & sense of numbers, including numeration & operations	
(addition, subtraction, multiplication, division), patterns, ratios & proportions.	
Compare & order whole numbers, fractions & decimals using concrete materials, drawings & mathematical symbols	
Solve one- & two-step problems involving whole numbers, fractions & decimals	✓
using addition, subtraction, multiplication & division	
Select & perform computational procedures to solve problems with whole numbers	✓
Show evidence that whole number computational results are correct &/or that estimates are reasonable	✓
Compare the numbers of objects in groups	
Estimate, make & use measurements of objects, quantities & relationships	✓
& determine acceptable levels of accuracy.	
Calculate, compare & convert length, perimeter, area, weight/mass & volume within the customary & metric systems	
Solve addition, subtraction, multiplication & division problems using currency	✓
Determine & communicate possible methods for estimating a given measure,	
selecting proper units in both customary & metric systems	
Estimate conversions between measures within the customary and metric systems	
Describe relationships in a simple scale drawing	
Construct or draw figures with given perimeters & areas	

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Use algebraic & analytical methods to identify & describe patterns relationships in data, solve problems and predict results.	✓
Identify, describe extend & create geometric & numeric patterns	
Construct & solve number sentences using a variable to represent an unknown quantity	✓
Analyze a geometric pattern & express the results numerically	
Explain operations & number properties including commutative, associative,	✓
distributive, transitive, zero, equality & order of operations	
Solve linear equations involving whole numbers	✓
Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space.	
Build physical models of two-and -three dimensional shapes	
Identify and describe how geometric figures are used in practical setting	
Describe & draw representations of geometric relationships, patterns, symmetries, & designs	
in two- and three-dimensions with and without technology	
Compare geometric figures & determine their properties including parallel,	
perpendicular, similar, congruent & line symmetry	
Formulate logical arguments about geometric figures & patterns & communicate reasoning	

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Collect, organize & analyze data using statistical methods; predict results;	
and interpret uncertainty using concepts of probability.	
Organize & display data using pictures, tallies, tables, charts, bar graphs,	
line graphs, line plots & stem-and-leaf graphs	
Using a data set, determine mean, median, mode and range, with & without the use of technology	
Make predictions & decisions based on data & communicate their reasoning	
Formulate questions of interest & select methods to systematically collect data	
Collect, organize & display data using tables, charts, bar graphs, line graphs,	
circle graphs, line plots & stem-and-leaf graphs	
Analyze the data using mean, median, mode & range, and appropriate, with or without the use of technology	
Interpret results or make relevant decisions based on the data gathered	
Calculate the probability of a simple event	
Compare the likelihood of events in terms of certain, more likely less likely or impossible	
Determine the probability of an event involving "and", "or", or "not".	