

OR 2007 Mathematics Standards for Gr 5. Compared to Teacher to Teacher Publications' Making Sense of Problem Solving

OR Grade 5 "fills the gaps"	Making Sense of Prob. Slvng
5.1 Number and Operations and Data Analysis: Develop an understanding of and fluency with addition and subtraction of fractions and decimals.	
5.1.1 Use fraction models to represent the addition and subtraction of fractions with unlike denominators.	Level F: Section I, p. 39-45; F.4 Pizza Pizza, p. 2-9; 15-20
5.1.2 Use decimal models, place value, and number properties to add and subtract decimals (to the thousandths).	
5.1.3 Select and use appropriate strategies to estimate fraction and decimal sums and differences.	Level F: Section 1, p. 40; F.5 School Clothes, p. 2-7, 13-18
5.1.4 Develop fluency with efficient procedures for adding and subtracting fractions and decimals and justify why the procedures work.	F.4 Pizza Pizza p. 3-8, 15-20; F.5 School Clothes, p. 2-7, 13-18
5.1.5 Solve problems involving the addition and subtraction of fractions and decimals.	Level F: Section 1, p. 31-34, 39-45; F.5 School Clothes, p. 2-7, 13-18 ; F.6 Party Hearty, p. 4-10, 16-21
5.1.6 Use ordered pairs on coordinate graphs to specify locations and describe paths.	Level F: Jog-A-Thon p. 4-5, 7-8, 14-19
5.1.7 Construct and analyze double bar, line, and circle graphs to solve problems involving fractions and decimals.	F.14 The Growth of Children p. 4-10; 17-22
5.2 Number and Operations and Algebra: Develop an understanding of and fluency with division of whole numbers.	
5.2.1 Apply understanding of models for division (e.g., equal-sized groups, arrays,	F.1 Baseball p.3-4
5.2.2 Apply concepts of place value and the properties of operations to solve problems involving division.	Level F: Section 1, p. 35-37; 48-54; F.2 Let's Go p. 2-6, 12-17; F.3 Who's Here? P. 2, 4-5, 13-18
5.2.3 Select and use appropriate estimation strategies for division (e.g., use benchmarks, overestimate, underestimate, round) to calculate mentally based on the problem situation when computing with whole numbers.	Level F: Section 1, p. 48-54; F.2 Let's Go p. 2, F.3 Who's Here? P. 3, 6-7
5.2.4 Develop and use accurate, efficient, and generalizable methods to find quotients for multi-digit division problems.	F.1 Baseball o. 3-6, 13-19
5.2.5 Develop fluency with efficient procedures for dividing whole numbers and justify why the procedures work on the basis of place value and number properties.	
5.2.6 Determine the most appropriate form of the quotient and interpret the remainder in a problem situation.	F.1 Baseball, p. 2-3, 5-7; 13-19; F.2 Let's Go, p. 5-6

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5.3 Geometry, Measurement, and Algebra: Describe and relate two-dimensional shapes to three-dimensional shapes and analyze their properties, including

5.3.1 Identify and classify triangles by their angles (acute, right, obtuse) and sides (scalene, isosceles, equilateral).	
5.3.2 Find and justify relationships among the formulas for the areas of triangles and parallelograms.	F.9 Constructing Pyramids, p. 5-8
5.3.3 Describe three-dimensional shapes (triangular and- rectangular prisms, cube, triangular- and square-based pyramids, cylinder, cone, and sphere) by the number of edges, faces, and/or vertices as well as types of faces.	F.7 Boxing In and Out p. 2-4; F.9 Constructing Pyramids, p. 2-4, 13
5.3.4 Recognize volume as an attribute of three-dimensional space.	F.7 Boxing In and Out, p. 2-4, 6-7; F.8 How Much Is This, p. 2-3
5.3.5 Determine volume by finding the total number of same-sized units of volume that fill a three-dimensional shape without gaps or overlaps.	F.7 Boxing In and Out, p. 2-4; F.8 How Much Is This, p. 2-7, 13-18
5.3.6 Recognize a cube that is one unit on an edge as the standard unit for measuring volume.	F.7 Boxing In and Out, p. 2-4; F.8 How Much Is This, p. 2-4; 13-18
5.3.7 Determine the appropriate units, strategies, and tools for solving problems that involve estimating or measuring volume.	F.7 Boxing In and Out, p. 6-7; F.8 How Much Is This, p. 2-7, 13-18
5.3.8 Decompose three-dimensional shapes and find surface areas and volumes of triangular and rectangular prisms.	F.9 Constructing Pyramids, p. 9-12; 22-27
5.3.9 Identify and measure necessary attributes of shapes to use area , surface area, and volume formulas to solve problems (e.g., to find which of two gift boxes needs the most wrapping paper or has the greater volume?).	F.7 Boxing In and Out, p. 4-7, 13-18