

| Mathematics-4th grade | 3rd quarter | | | |
|--|---|---------------------------|---|--|
| Essential Skill Component | Standard | Sub Component | Mathematical Practices | Quarterly Focus |
| Mathematical Reasoning | | | | |
| Applies strategies to solve problems | 4.OA.2, 4.OA.3, 4.NF.3, 4.NF.4, 4.MD.2 | | 4.MP.1, 4.MP.2, 4.MP.3, 4.MP.4, 4.MP.5, 4.MP.6, 4.MP.7, 4.MP.8 | Integrate throughout all 4 quarters Problem solving involving comparing fractions, adding/subtracting fractions, multiplying fractions by a whole number, decimals, relationship between fractions and decimals |
| Communicates mathematical thinking, using math vocabulary | Embedded throughout 4th grade Common Core Standards for Mathematics and Language Arts | | 4.MP.3, 4.MP.6 | Integrate throughout all 4 quarters Vocabulary: denominator, numerator, common denominator, equivalent, mixed number, decompose, fraction, decimal, decimal point, tenths, hundredths, mixed number, unit fraction, compare |
| Operations and Algebraic Thinking | | | | |
| Uses four operations with whole numbers to solve problems | 4.OA.2, 4.OA.3, 4.OA.5 | | 4.MP.1, 4.MP.2, 4.M.P.4, 4.M.P.7, 4.M.P.8 | Review and assess as needed Solve Problems: using drawings, equations, estimation, rounding |
| Multiplies whole numbers | 4.OA.1, 4.NBT.5 | | 4.MP.1, 4.MP.2, 4.M.P.4, 4.M.P.7, 4.M.P.8 | Review as needed |
| Divides whole numbers | 4.NBT.6 | | 4.MP.1, 4.MP.2, 4.M.P.4, 4.M.P.7, 4.M.P.8 | Review as needed |
| Identifies factors and multiples in numbers 1-100 | 4.OA.4 | | 4.MP.2, 4.MP.7, 4.MP.8 | Assessed in 2nd quarter Review as needed |
| Solves multi-step word problems | 4.OA.3 | | 4.MP.1, 4.MP.2, 4.MP.3, 4.M.P.4, 4.M.P.5, 4.M.P.6, 4.M.P.7, 4.M.P.8 | Review as needed Solve Problems: using drawings, equations, estimation, rounding |
| Number Sense and Operations in Base Ten | | | | |
| Demonstrates an understanding of place value to one million | 4.NBT.1, 4.NBT.2, 4.NBT.3 | | 4.MP.3, 4.MP.5, 4.MP.6 | Review as needed Assessed in 1st Quarter |
| Performs four operations with multi-digit numbers | 4.NBT.4, 4.NBT.5, 4.NBT.6 | | 4.MP.1, 4.MP.2, 4.M.P.4, 4.M.P.7, 4.M.P.8 | Review as needed |
| Number Sense and Operations-Fractions | | | | |
| Demonstrates an understanding of fractions equivalence | 4.NF.1 | | 4.MP.2, 4.MP.3, 4.MP.7, 4.MP.8 | Explain equivalent fractions. |
| Compares and orders fractions | 4.NF.2 | | 4.MP.1, 4.MP.2, 4.MP.7, 4.MP.8 | Compare two fractions by creating common denominators Compare fractions to a benchmark fraction, such as 1/2 Record results and justify conclusions of comparisons using <, =, > symbols |
| Adds and subtracts fractions with like denominators | 4.NF.3 | 4.NF.3a, 4.NF.3b, 4.NF.3d | 4.MP.1, 4.MP.2, 4.M.P.4, 4.M.P.7, 4.M.P.8 | Joining and separating parts referring to the same whole Decompose a fraction Solve word problems |
| Adds and subtracts mixed numbers with like denominators | 4.NF.3 | 4.NF.3c, 4.NF.3d | 4.MP.1, 4.MP.2, 4.M.P.4, 4.M.P.7, 4.M.P.8 | Solve word problems |
| Solves word problems involving multiplication of a fraction by a whole number | 4.NF.4 | 4.NF.4a, 4.NF.4b, 4.NF.4c | 4.MP.1, 4.MP.2, 4.MP.3, 4.M.P.4, 4.M.P.5, 4.M.P.6, 4.M.P.7, 4.M.P.8 | 4.NF.4a Ex) $5/4 = 5 \times 1/4$ 4.NF.4b Ex) $3 \times 2/5 = 6/5 = 6 \times 1/5$ Solve word problems |
| Demonstrates an understanding of the relationship between fractions and decimals | 4.NF.5, 4.NF.6, 4.NF.7 | | 4.MP.1, 4.MP.2, 4.MP.3, 4.M.P.4, 4.M.P.5, 4.M.P.6, 4.M.P.7, 4.M.P.8 | 4.NF.5 Ex) $3/10 + 4/100 = 34/100$ 4.NF.6 Change a decimal to a fraction and a fraction to a decimal Ex) $0.62 = 62/100$ 4.NF.7 Compare two decimals to the tenths and hundredths |
| Measurement and Data | | | | |
| Uses the four operations to solve problems involving measurement (such as distance, time, volume, mass, money, and simple fractions, decimals, area and perimeter) | 4.MD.2, 4.MD.3 | | 4.MP.1, 4.MP.2, 4.M.P.4, 4.M.P.7, 4.M.P.8 | Area and perimeter assessed in 2nd quarter All other components assessed in 4th quarter |
| Converts units of measure within one system (including km, m, cm; kg, g, lb, oz; l, ml, hr, min, sec) | 4.MD.1 | | 4.MP.1, 4.MP.2, 4.M.P.4, 4.M.P.7, 4.M.P.8 | Metric Measurement assessed in 1st quarter Customary Measurement assessed in 2nd quarter |
| Represents and interprets data, using a line plot | 4.MD.4 | | 4.MP.2, 4.MP.4 | Not assessed until 4th quarter |
| Measures, sketches, and adds angles in degrees, using a protractor | 4.MD.5, 4.MD.6, 4.MD.7 | 4.MD.5a, 4.MD.5b | 4.MP.2, 4.MP.4, 4.MP.5, 4.MP.6 | Not assessed until 4th quarter |
| Geometry | | | | |
| Draws points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines | 4.G.1 | | 4.MP.2, 4.MP.4, 4.MP.5, 4.MP.6 | Not assessed until 4th quarter |
| Classifies shapes based on lines and angles (parallel, perpendicular, and symmetrical) | 4.G.2, 4.G.3, 4.MD.5 | | 4.MP.1, 4.MP.2, 4.MP.3, 4.MP.5, 4.MP.6 | Not assessed until 4th quarter |