

Number notation and place value

5.OA.1 Use parentheses, brackets, or braces in numerical expressions and evaluate the expressions (including nested)

<https://www.opened.com/video/introduction-to-order-of-operations/365286>

5.NBT.2 Use whole number exponents to denote powers of 10

<https://www.opened.com/video/divide-a-decimal-number-by-a-power-of-ten/138802>

Multiplication and division of whole numbers

5.NBT.6 Find whole number quotients of whole numbers with up to 4-digit dividends and 2-digit divisors, using strategies based on place value, properties of operations, relationship between multiplication and division and illustrate using equations

5.NBT.6 Illustrate 4-digit by 2-digit division with whole number quotients using rectangular arrays and/or area models

<https://www.opened.com/video/long-division/5504139>

Fractions

5.NF.1 Add and subtract unlike fractions, including mixed numbers

<https://www.opened.com/video/add-fractions-with-unlike-denominators-by-creating-area/412297>

<https://www.opened.com/homework/5-nf-1-add-and-subtract-fractions-with-unlike-denominators/3689487>

5.NF.2 Use benchmark fractions and number sense of fractions to estimate and assess reasonableness of answers involving addition and subtraction of fractions

<https://www.opened.com/video/solve-word-problems-with-subtraction-of-fractions/64010>

5.NF.4a Find fraction of a set by interpreting $a/b \times q$ as $a \times q \div b$ (whole number answers)

<https://www.opened.com/video/multiply-fractions-by-whole-numbers-describing-the-problem/138909>

5.NF.4b Find the area of a rectangle with fractional side lengths by tiling it with unit squares of unit fractions and show that area is the same as would be found by multiplying the side lengths

https://learnzillion.com/lesson_plans/5693-find-the-area-of-a-rectangle-with-fractional-side-lengths-by-tiling

5.NF.4b Represent fraction products as rectangular areas

https://learnzillion.com/lesson_plans/6480-find-the-area-of-a-rectangle-by-multiplying-a-fraction-and-a-whole-number

https://learnzillion.com/lesson_plans/5768-find-the-product-of-a-whole-number-and-a-fraction-by-using-area-models

5.NF.5a Compare the size of the product to the size of one factor, without multiplying

<https://learnzillion.com/resources/72293-interpret-multiplication-as-scaling-and-predict-the-outcome-of-multiplying-by-fractions-less-than-greater-than-and-equal-to-one-5-nf-b-5>

5.NF.5b Explain why multiplying a number by a fraction greater than 1 results in a product greater than the given number

5.NF.5b Explain why multiplying a number by a fraction smaller than 1 results in a product smaller than the given number

5.NF.5b Relate fractions equivalence $a/b = (ma)/(mb)$ to multiplying by 1

<https://learnzillion.com/resources/73022-interpret-multiplication-as-scaling>

5.NF.6 Solve real world problems involving multiplication of fractions and mixed numbers using fraction models or equations

<https://www.opened.com/video/multiply-mixed-numbers-writing-as-fractions/337669>

5.NF.7a Interpret division of a unit fraction by a whole number and find the quotient

<https://www.opened.com/game/divide-unit-fraction-by-a-whole/8849250>

5.NF.7b Interpret division of a whole number by a unit fraction and find the quotient

https://learnzillion.com/lesson_plans/7994-divide-whole-numbers-by-unit-fractions-using-a-mode
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5.NF.7c Solve real world problems involving division of unit fractions by a whole number or whole number by a unit fraction using fraction models and equations

https://learnzillion.com/lesson_plans/8395-solve-word-problems-involving-division-of-fractions-by-whole-numbers-by-using-the-multiplicative-inverse

Decimals

5.NBT.2 Explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10

https://learnzillion.com/lesson_plans/5144-understand-how-division-by-a-power-of-ten-causes-decimal-shifts

5.NBT.7 Multiply and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operation

<https://www.opened.com/video/multiplying-a-decimal-by-a-power-of-10/365365>

<https://www.opened.com/video/dividing-a-decimal-by-a-power-of-10/365366>

Length, Mass, Weight, and Capacity

5.MD.1 Convert between measurements within the same system using decimals

<https://www.opened.com/game/convert-metric-units/8849261>

Perimeter, Area, and Volume

5.MD.5a Derive the formula $V = b \times h$

<https://www.opened.com/video/volume-of-a-prism-yourteacher-com-math-help/115215>

5.MD.5c Find to volume of compound figures made of right rectangular prisms and solve word problems

<https://www.opened.com/video/volume-of-rectangular-prisms-length-width-and-height/203005>

Coordinate Graphs

5.G.1 Understand the coordinate plane, x and y axis and coordinates, and plot ordered pairs (first quadrant)

<https://www.opened.com/video/khan-academy-plotting-x-y-relationships/183419>

5.OA.3 Generate numerical patterns using two given rules, identify relationships between corresponding terms, create ordered pairs, and graph on a coordinate plane

<https://www.opened.com/game/numeric-patterns/213027>

Data and Statistics

5.MD.2 Make a line plot to display a data set of measurements in fractions ($\frac{1}{2}$, $\frac{1}{4}$, or $\frac{1}{8}$). Use operations on fractions to solve problems involving information in the line plot, such as finding the average

<https://www.opened.com/video/interpreting-line-graphs/956522>

5.G.2 Graph points on a coordinate plane and interpret values in context of real-world and mathematical situation

<https://www.opened.com/game/what-s-the-point-funbrain/402677>