

| IDEAL PERCENTAGE OF ITEMS | IDEAL NUMBER OF ITEMS | STRANDS AND STANDARDS                  |
|---------------------------|-----------------------|----------------------------------------|
| 44%                       | 22                    | <b>NUMBER AND OPERATIONS</b>           |
|                           | 9                     | 4.N.1 Number Operations                |
|                           | 13                    | 4.N.2 Rational Numbers (10)            |
|                           |                       | 4.N.3 Money (3)                        |
| 16%                       | 8                     | <b>ALGEBRAIC REASONING AND ALGEBRA</b> |
|                           | 8                     | 4.A.1 Numerical Patterns (4)           |
|                           |                       | 4.A.2 Equations (4)                    |
| 28%                       | 14                    | <b>GEOMETRY AND MEASUREMENT</b>        |
|                           | 6                     | 4.GM.1 Polygons and Polyhedra          |
|                           | 8                     | 4.GM.2 Measurement (5)                 |
|                           |                       | 4.GM.3 Time (3)                        |
| 12%                       | 6                     | <b>DATA AND PROBABILITY</b>            |
|                           | 6                     | 4.D.1 Data Analysis                    |

**Almost 50% of the test comes from Numbers and Operations. Please pace accordingly. If students can master Numbers and Operations and Geometry and Measurement, they will have mastered 72% of the standards.**

This correlates to the 6th Grade Standards Mastery for Math (OAS) in Study Island. Use the KHAN Links in addition to assessing standards mastery in Study Island. Please keep in mind this is not a full teaching curriculum but should be used in addition to your standards-based teaching.

| <u>SI Topic</u>                                                                         | <u>IXL Practice Problems</u>                                                                                                                                         | <u>Direct Instruction: Practice Problems and Lessons from KHAN</u>                                                                        | <u>Other Video Links and Online Practice</u>                                                                       |
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| <b><u>Numbers and Operations</u></b>                                                    |                                                                                                                                                                      |                                                                                                                                           |                                                                                                                    |
| Multiplication and Division Facts <b>4.N.1.1</b><br><br><b><u>Homework Help PDF</u></b> | <u>Multiplication facts to 12 (4-D.1)</u><br><br><u>Multiplication facts up to 12: find the missing factor (4-D.2)</u><br><br><u>Choose the multiples of a given</u> | <u>Multiply by 0 or 1</u><br><br><u>Multiply by 2</u><br><br><u>Multiply by 3</u><br><br><u>Multiply by 4</u><br><br><u>Multiply by 5</u> | <u>EPIC Math Coach Video</u><br><br><u>Quick Flash Multiplication Game</u><br><br><u>Quick Flash Division Game</u> |

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|                                                                                                 | <a href="#">number up to 12 (4-D.3)</a><br><br><a href="#">Division facts to 12 (4-E.1)</a><br><br><a href="#">Division facts to 12: word problems (4-E.2)</a>                                                                                                                                                                                           | <a href="#">Multiply by 6</a><br><a href="#">Multiply by 7</a><br><a href="#">Multiply by 8</a><br><a href="#">Multiply by 9</a><br><a href="#">Divide by 1</a><br><a href="#">Divide by 2</a><br><a href="#">Divide by 3</a><br><a href="#">Divide by 4</a><br><a href="#">Divide by 5</a><br><a href="#">Divide by 6</a><br><a href="#">Divide by 7</a><br><a href="#">Divide by 8</a><br><a href="#">Divide by 9</a>                | <a href="#">Multiply by 2 Song</a><br><a href="#">Multiply by 3 Song</a><br><a href="#">Multiply by 4 Song</a><br><a href="#">Multiply by 5 Song</a><br><a href="#">Multiply by 6 Song</a><br><a href="#">Multiply by 7 Song</a><br><a href="#">Multiply by 8 Song</a><br><a href="#">Multiply by 9 Song</a><br><a href="#">Multiply by 10 Song</a><br><a href="#">Learning Basic Division</a><br><a href="#">Multiplication and Division Fact Families</a> |
| Multiply and Divide by 10, 100, 1000 <b>4.N.1.2</b><br><br><a href="#">Homework Help PDF</a>    | <a href="#">Multiplication patterns over increasing place values (4-D.8)</a><br><br><a href="#">Division patterns over increasing place values (4-E.13)</a>                                                                                                                                                                                              | <a href="#">Multiply by 10</a><br><a href="#">Multiply by 10s Word Problems</a><br><a href="#">Cancel zeros when dividing</a>                                                                                                                                                                                                                                                                                                          | <a href="#">Multiply by Multiples of 10</a><br><a href="#">Dividing by Multiples of 10</a><br><a href="#">Mentally Multiply by 10s and 100s Game</a><br><a href="#">Mentally Divide by 10s and 100s Game</a>                                                                                                                                                                                                                                                |
| Multiplication and Division <b>4.N.1.3 and 4.N.1.6</b><br><br><a href="#">Homework Help PDF</a> | <a href="#">Multiply 1-digit numbers by 3-digit or 4-digit numbers (4-D.6)</a><br><br><a href="#">Box multiplication (4-D.15)</a><br><br><a href="#">Lattice multiplication (4-D.16)</a><br><br><a href="#">Multiply a 2-digit number by a 2-digit number: complete the missing steps (4-D.17)</a><br><br><a href="#">Multiply a 2-digit number by a</a> | <a href="#">Multiply 1-digit numbers by 10, 100, and 1000</a><br><a href="#">Multiply 1-digit numbers by a multiple of 10, 100, and 1000</a><br><br><a href="#">Multiply 2-Digit Numbers</a><br><br><a href="#">Multiply 2-digits numbers with area models</a><br><br><a href="#">Multiply using place value</a><br><a href="#">Multiply with Regrouping</a><br><br><a href="#">Multiplying 4 digits by 1 digit with visual models</a> | <a href="#">EPIC Math Coach Video</a><br><br><a href="#">Partial Products Multiplication</a><br><br><a href="#">Multiplication Using the Distributive Property</a><br><br><a href="#">Long Division with Three Digit Dividend</a><br><br><a href="#">Division Using Arrays</a>                                                                                                                                                                              |

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|                                                                                             | <p><a href="#"><u>2-digit number (4-D.18)</u></a></p> <p><a href="#"><u>Multiply a 2-digit number by a 2-digit number: word problems (4-D.19)</u></a></p> <p><a href="#"><u>Multiply three numbers up to two digits each (4-D.26)</u></a></p> <p><a href="#"><u>Divide 2-digit numbers by 1-digit numbers (4-E.4)</u></a></p> <p><a href="#"><u>Divide 2-digit numbers by 1-digit numbers: word problems (4-E.5)</u></a></p> <p><a href="#"><u>Divide 2-digit numbers by 1-digit numbers: complete the table (4-E.6)</u></a></p> <p><a href="#"><u>Divide 2-digit numbers by 1-digit numbers: interpret remainders (4-E.7)</u></a></p> <p><a href="#"><u>Divide larger numbers by 1-digit numbers (4-E.8)</u></a></p> <p><a href="#"><u>Divide larger numbers by 1-digit numbers: word problems (4-E.9)</u></a></p> <p><a href="#"><u>Divide larger numbers by 1-digit numbers: complete the table (4-E.10)</u></a></p> <p><a href="#"><u>Divide larger numbers by 1-digit numbers: interpret remainders (4-E.11)</u></a></p> <p><a href="#"><u>Divide numbers ending in zeroes by 1-digit numbers (4-E.14)</u></a></p> | <p><a href="#"><u>Divide by 1-digit numbers (no remainders)</u></a></p> <p><a href="#"><u>Divide by 1-digit numbers (visual models)</u></a></p> <p><a href="#"><u>Divide using place value</u></a></p> <p><a href="#"><u>Intro to dividing with remainders</u></a></p> <p><a href="#"><u>Divide with remainders</u></a></p> <p><a href="#"><u>Quotients that are multiples of 10</u></a></p> <p><a href="#"><u>Zeros in the dividend (no remainders)</u></a></p> <p><a href="#"><u>Zeros in the quotient (no remainders)</u></a></p> | <p><a href="#"><u>Multi-Digit Multiplication Process</u></a></p>                                             |
| <p>Estimate Products<br/><b>4.N.1.4</b></p> <p><a href="#"><u>Homework Help PDF</u></a></p> | <p><a href="#"><u>Estimate products - multiply by 1-digit numbers (4-D.12)</u></a></p> <p><a href="#"><u>Estimate products - multiply by</u></a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p><a href="#"><u>Round Whole Numbers</u></a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p><a href="#"><u>EPIC Math Coach Video</u></a></p> <p><a href="#"><u>Round to Estimate Products</u></a></p> |

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|                                                                                       | <p><u>larger numbers (4-D.13)</u></p> <p><u>Estimate products: word problems (4-D.14)</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                | <p><a href="#">Estimating Products Word Problems</a></p> <p><a href="#">Estimating Products</a></p>                                                                                                                                                                                                                                                                                                                                               |
| <p>Multistep Problems<br/><b>4.N.1.5</b></p> <p><a href="#">Homework Help PDF</a></p> | <p><u>Add numbers up to millions (4-B.1)</u></p> <p><u>Add numbers up to millions: word problems (4-B.2)</u></p> <p><u>Addition: fill in the missing digits (4-B.3)</u></p> <p><u>Add 3 or more numbers up to millions (4-B.5)</u></p> <p><u>Addition patterns over increasing place values (4-B.6)</u></p> <p><u>Subtract numbers up to millions (4-C.1)</u></p> <p><u>Subtract numbers up to millions: word problems (4-C.2)</u></p> <p><u>Subtraction: fill in the missing digits (4-C.3)</u></p> <p><u>Subtraction patterns over increasing place values (4-C.4)</u></p> <p><u>Multiply 1-digit numbers by larger numbers (4-D.7)</u></p> <p><u>Choose numbers with a particular product (4-D.20)</u></p> <p><u>Multiply a 2-digit number by a larger number: complete the missing steps (4-D.21)</u></p> <p><u>Multiply a 2-digit number by a</u></p> | <p><a href="#">2-step word problems</a></p> <p><a href="#">Multi-step word problems with whole numbers</a></p> | <p><a href="#">Simple Order of Operations</a></p> <p><a href="#">Multi-Step Word Problems</a></p> <p><a href="#">Solving Word Problems with More Than One Step</a></p> <p><a href="#">Solving Multi-Step Problems - Draw a Pic</a></p> <p><a href="#">Words that Represent Addition and Subtraction</a></p> <p><a href="#">Solving Multiplication and Division Word Problems</a></p> <p><a href="#">Words for Multiplication and Division</a></p> |

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|                                                                                                   | <p><a href="#"><u>larger number (4-D.22)</u></a></p> <p><a href="#"><u>Multiply a 2-digit number by a larger number: word problems (4-D.23)</u></a></p> <p><a href="#"><u>Multiply numbers ending in zeroes (4-D.24)</u></a></p> <p><a href="#"><u>Multiply numbers ending in zeroes: word problems (4-D.25)</u></a></p> <p><a href="#"><u>Add, subtract, multiply, and divide (4-F.1)</u></a></p> <p><a href="#"><u>Addition, subtraction, multiplication, and division word problems (4-F.2)</u></a></p> <p><a href="#"><u>Estimate sums, differences, products, and quotients: word problems (4-F.3)</u></a></p> <p><a href="#"><u>Word problems with extra or missing information (4-F.4)</u></a></p> <p><a href="#"><u>Solve word problems using guess-and-check (4-F.5)</u></a></p> <p><a href="#"><u>Multi-step word problems (4-F.6)</u></a></p> |                                                                                                           |                                                                                                                                                                                                          |
| <p>Unknown Addends and Factors <b>4.N.1.7</b></p> <p><a href="#"><u>Homework Help PDF</u></a></p> | <p><a href="#"><u>Multiplication facts up to 12: find the missing factor (4-D.2)</u></a></p> <p><a href="#"><u>Distributive property: find the missing factor (4-D.10)</u></a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p><a href="#"><u>None</u></a></p>                                                                        | <p><a href="#"><u>EPIC Math Coach Video</u></a></p> <p><a href="#"><u>4th Grade Missing Addend Solved with Subtraction</u></a></p> <p><a href="#"><u>Unknown with Multiplication or Division</u></a></p> |
| <p>Equivalent Fractions <b>4.N.2.1</b></p>                                                        | <p><a href="#"><u>Find equivalent fractions using area models (4-P.5)</u></a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p><a href="#"><u>Equivalent Fractions 1</u></a></p> <p><a href="#"><u>Equivalent Fractions 2</u></a></p> | <p><a href="#"><u>Equivalent Fractions</u></a></p> <p><a href="#"><u>Simplifying Fractions</u></a></p>                                                                                                   |

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| <a href="#">Homework Help PDF</a>                                                                   | <a href="#">Graph equivalent fractions on number lines (4-P.6)</a><br><br><a href="#">Equivalent fractions (4-P.7)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Equivalent Fractions Models</a><br><br><a href="#">Equivalent fractions on the number line</a>                                                                                                                                                                                                                                                                                                                                                                                                                   | <a href="#">Lowest Terms and Fractions</a><br><br><a href="#">Reducing Fractions</a><br><br><a href="#">Video of Equivalent Fractions Activity</a>                                                                                                                                                                                                                                                                                                                    |
| <p>Compare and Order Fractions <a href="#">4.N.2.2</a></p> <p><a href="#">Homework Help PDF</a></p> | <a href="#">Compare fractions with like numerators or denominators using models (4-P.11)</a><br><br><a href="#">Graph and compare fractions with like numerators or denominators on number lines (4-P.12)</a><br><br><a href="#">Compare fractions with like numerators or denominators (4-P.13)</a><br><br><a href="#">Compare fractions using models (4-P.14)</a><br><br><a href="#">Benchmark fractions (4-P.15)</a><br><br><a href="#">Compare fractions (4-P.17)</a><br><br><a href="#">Compare fractions in recipes (4-P.18)</a><br><br><a href="#">Graph and order fractions on number lines (4-P.19)</a><br><br><a href="#">Order fractions with like numerators or denominators (4-P.20)</a><br><br><a href="#">Order fractions (4-P.21)</a><br><br><a href="#">Find smaller or larger fractions (4-P.22)</a> | <a href="#">Find 1 on the number line</a><br><br><a href="#">Unit fractions on the number line</a><br><br><a href="#">Compare fractions and mixed numbers</a><br><br><a href="#">Common Denominators</a><br><br><a href="#">Compare fractions with different numerators and denominators</a><br><br><a href="#">Equivalent fractions and different wholes</a><br><br><a href="#">Order Fractions</a><br><br><a href="#">Visually compare fractions 2</a><br><br><a href="#">Rewrite mixed numbers and improper fractions</a> | <a href="#">EPIC Math Coach Video</a><br><br><a href="#">Creating Mixed Numbers &amp; Improper Fractions from Pictures</a><br><br><a href="#">Change an Improper Fraction into a Mixed Number</a><br><br><a href="#">Compare Fractions with Cross Multiplication</a><br><br><a href="#">Ordering Fractions on a Number Line</a><br><br><a href="#">Compare Fractions on a Number Line</a><br><br><a href="#">Comparing &amp; Ordering Fractions and Mixed Numbers</a> |
| <p>Decompose Fractions <a href="#">4.N.2.3</a></p>                                                  | <a href="#">Decompose fractions into unit fractions (4-Q.1)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">Cut shapes into equal parts</a><br><br><a href="#">Identify numerators and denominators</a>                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Represent mixed numbers as sum of unit fractions</a>                                                                                                                                                                                                                                                                                                                                                                                                      |

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| <a href="#">Homework Help PDF</a>                                                  | <a href="#">Decompose fractions (4-Q.2)</a><br><br><a href="#">Decompose fractions multiple ways (4-Q.3)</a>                                                                                                                                                                    | <a href="#">Identify unit fractions</a><br><br><a href="#">Recognize fractions 1</a><br><br><a href="#">Recognize fractions 2</a><br><br><a href="#">Decompose Fractions</a>                                                                                                                                                                                                                                                                                                               | <a href="#">Decomposing Fractions</a><br><br><a href="#">Decomposing Fractions Examples</a>                                                                                                                                           |
| Add and Subtract Fractions <b>4.N.2.4</b><br><br><a href="#">Homework Help PDF</a> | <a href="#">Add fractions with like denominators using number lines (4-Q.4)</a><br><br><a href="#">Subtract fractions with like denominators using number lines (4-Q.6)</a><br><br><a href="#">Add and subtract fractions with like denominators using number lines (4-Q.8)</a> | <a href="#">Add and subtract fractions: word problems 1</a><br><br><a href="#">Add and subtract fractions: word problems 2</a><br><br><a href="#">Add fractions with common denominators</a><br><a href="#">Subtract fractions with common denominators</a><br><br><a href="#">Add and subtract mixed numbers 1</a><br><br><a href="#">Add and subtract mixed numbers 2</a><br><br><a href="#">Add and subtract fractions: word problems 1</a>                                             | <a href="#">EPIC Math Coach Video</a><br><br><a href="#">Add and Subtract Fractions with Like Denominators</a><br><br><a href="#">Adding mixed numbers introduction</a><br><br><a href="#">Subtracting mixed numbers introduction</a> |
| Decimal Models <b>4.N.2.5</b><br><br><a href="#">Homework Help PDF</a>             | <a href="#">What decimal number is illustrated? (4-T.1)</a><br><br><a href="#">Model decimals and fractions (4-T.2)</a><br><br><a href="#">Graph fractions as decimals on number lines (4-T.8)</a>                                                                              | <a href="#">Write decimal numbers shown in grids</a><br><br><a href="#">Decimals on the number line: hundredths</a><br><br><a href="#">Decimals on the number line: hundredths 0-0.1</a><br><br><a href="#">Decimals on the number line: tenths</a><br><br><a href="#">Decimals on the number line: tenths 0-1</a><br><br><a href="#">Rewrite decimals as fractions</a><br><br><a href="#">Rewrite fractions as decimals</a><br><br><a href="#">Write number as a fraction and decimal</a> | <a href="#">Introduction to Decimals</a><br><br><a href="#">Reading and Writing Decimals</a><br><br><a href="#">Decimal Place Value for Fourth Grade</a><br><br><a href="#">Writing Tenths and Hundredths with Decimals</a>           |

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| <p>Representations of Decimals <b>4.N.2.6</b></p> <p><a href="#">Homework Help PDF</a></p> | <p><a href="#">Understanding decimals expressed in words (4-T.3)</a></p> <p><a href="#">Place values in decimal numbers (4-T.4)</a></p> <p><a href="#">Equivalent decimals (4-T.5)</a></p> <p><a href="#">Graph decimals on number lines (4-T.6)</a></p> <p><a href="#">Decimal number lines (4-T.7)</a></p> <p><a href="#">Convert decimals between standard and expanded form using fractions (4-T.12)</a></p> | <p><a href="#">Decimals in Words</a></p>                                                                                                                                                                              | <p><a href="#">Writing a decimal in word form</a></p> <p><a href="#">Decimals in Expanded Form</a></p> <p><a href="#">Decimals in Word and Expanded Form</a></p> <p><a href="#">Decimals and Money</a></p> <p><a href="#">Using Money to Understand Decimals</a></p> <p><a href="#">Decimals on a Number Line</a></p> <p><a href="#">Plotting Decimals on a Number Line</a></p> <p><a href="#">Reading, Naming, and Writing Decimals Game</a></p> |
| <p>Compare and Order Decimals <b>4.N.2.7</b></p> <p><a href="#">Homework Help PDF</a></p>  | <p><a href="#">Compare decimals on number lines (4-T.14)</a></p> <p><a href="#">Compare decimal numbers (4-T.15)</a></p> <p><a href="#">Put decimal numbers in order I (4-T.16)</a></p> <p><a href="#">Put decimal numbers in order II (4-T.17)</a></p> <p><a href="#">Compare decimals and fractions on number lines (4-T.18)</a></p> <p><a href="#">Compare decimals and fractions (4-T.19)</a></p>            | <p><a href="#">Compare decimals (tenths and hundredths)</a></p> <p><a href="#">Compare decimals visually</a></p> <p><a href="#">Compare decimals through thousandths</a></p> <p><a href="#">Ordering Decimals</a></p> | <p><a href="#">EPIC Math Coach Video</a></p> <p><a href="#">Compare Decimals Interactive Practice</a></p> <p><a href="#">Compare and Order Decimals Video</a></p> <p><a href="#">Using Signs to Compare Decimals</a></p> <p><a href="#">Visually Compare Decimals</a></p> <p><a href="#">Compare Decimals on a Number Line</a></p>                                                                                                                |



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| <p>Compare Fractions and Decimals <b>4.N.2.8</b></p> <p><a href="#">Homework Help PDF</a></p> | <p><a href="#">Compare fractions using benchmarks (4-P.16)</a></p>                                                                                                                                                                                                                                                                                                                                                               | <p><a href="#">Compare decimals and fractions</a></p>                       | <p><a href="#">Benchmark Fractions</a></p> <p><a href="#">What are Benchmark Fractions?</a></p> <p><a href="#">Convert any Fraction to a Decimal - easy math lesson</a></p> <p><a href="#">Turning Fractions into Decimals</a></p> <p><a href="#">Comparing Fractions to Decimals</a></p> <p><a href="#">Comparing Decimals and Fractions</a></p> <p><a href="#">Number Gators (Greater Than, Less Than Symbols Song)</a></p> |
| <p>Money <b>4.N.3.1</b></p> <p><a href="#">Homework Help PDF</a></p>                          | <p><a href="#">Count coins and bills - up to \$5 bill (4-M.1)</a></p> <p><a href="#">Compare money amounts (4-M.2)</a></p> <p><a href="#">Round money amounts (4-M.3)</a></p> <p><a href="#">Add and subtract money amounts (4-M.4)</a></p> <p><a href="#">Making change (4-M.6)</a></p> <p><a href="#">Price lists with addition and subtraction (4-M.7)</a></p> <p><a href="#">Price lists with multiplication (4-M.8)</a></p> | <p><a href="#">Convert money word problems</a></p>                          | <p><a href="#">Making Change- Counting Up Strategy</a></p> <p><a href="#">Count Money and Make Change</a></p> <p><a href="#">Change Maker Game</a></p> <p><a href="#">Money. buying items making change number line</a></p> <p><a href="#">Making Change Game</a></p> <p><a href="#">Subtracting Across Zeros with Money</a></p>                                                                                              |
| <p><b>Algebraic Reasoning and Algebra</b></p>                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>Patterns <b>4.A.1.1, 4.A.1.2 4.A.1.3</b></p>                                               | <p><a href="#">Multiplication input/output tables (4-D.29)</a></p>                                                                                                                                                                                                                                                                                                                                                               | <p><a href="#">Math Patterns</a></p> <p><a href="#">Math Patterns 1</a></p> | <p><a href="#">EPIC Math Coach Video</a></p>                                                                                                                                                                                                                                                                                                                                                                                  |

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| <a href="#">Homework Help PDF</a>                                                                                           | <div> <div>Divide 2-digit numbers by 1-digit numbers: complete the table (4-E.6)</div> <div>Input/output tables with addition, subtraction, multiplication, and division (4-H.1)</div> <div>Complete a table for a two-variable relationship (4-H.2)</div> <div>Multiplication input/output tables: find the rule (4-D.30)</div> <div>Find the next row in a growing pattern of shapes (4-L.4)</div> </div> |                                                                                                                                                                                                                                                    | <div> <div><a href="#">Find a Rule in a Table</a></div> <div><a href="#">Writing Rules for Patterns in a Table</a></div> <div><a href="#">Input Output Tables</a></div> </div>                |
| <div> <div>Number Sentences 4.A.2.1 and 4.A.2.2</div> <div><a href="#">Homework Help PDF</a></div> </div>                   | <div> <div>Multiplication facts up to 12: find the missing factor (4-D.2)</div> <div>Properties of multiplication (4-D.9)</div> <div>Distributive property: find the missing factor (4-D.10)</div> <div>Multiply using the distributive property (4-D.11)</div> <div>Write variable equations to represent word problems (4-G.4)</div> <div>Solve variable equations (4-G.5)</div> </div>                   | <div> <div><a href="#">Testing solutions to equations</a></div> </div>                                                                                                                                                                             | <div> <div><a href="#">Solving Basic Equations Part 1</a></div> <div><a href="#">Open Number Sentences/Number Stories</a></div> </div>                                                        |
| <b>Geometry and Measurement</b>                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                    |                                                                                                                                                                                               |
| <div> <div>Points, Lines, Line Segments, Rays and Angles 4.GM.1.1</div> <div><a href="#">Homework Help PDF</a></div> </div> | <div> <div>Lines, line segments, and rays (4-W.4)</div> <div>Parallel, perpendicular, and intersecting lines (4-W.5)</div> </div>                                                                                                                                                                                                                                                                           | <div> <div><a href="#">Angle Types</a></div> <div><a href="#">Draw parallel and perpendicular lines</a></div> <div><a href="#">Draw rays, lines and line segments</a></div> <div><a href="#">Draw right, acute, and obtuse angles</a></div> </div> | <div> <div><a href="#">Learning Lines and Angles</a></div> <div><a href="#">Line Segments, Lines and Rays</a></div> <div><a href="#">Finding Right, Acute, and Obtuse Angles</a></div> </div> |

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|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                             | <a href="#">Identify Parallel and Perpendicular Lines</a><br><a href="#">Identify rays, lines, &amp; line segments</a><br><a href="#">Recognize angles</a>                                                                                                                                                                   | <a href="#">Angles</a><br><a href="#">What is a Ray?</a><br><a href="#">Using Parallel Lines</a><br><a href="#">Right Angles in Shapes</a><br><a href="#">Polygon Song Video</a><br><a href="#">Using Perpendicular Lines</a><br><a href="#">Points, Lines and Rays</a>                                                                                                                                                                   |
| Two and Three-Dimensional Figures <b>4.GM.1.2</b> and <b>4.GM.1.3</b><br><a href="#">Homework Help PDF</a> | <a href="#">Parallel sides in quadrilaterals (4-X.4)</a><br><a href="#">Identify parallelograms (4-X.5)</a><br><a href="#">Identify trapezoids (4-X.6)</a><br><a href="#">Identify rectangles (4-X.7)</a><br><a href="#">Identify rhombuses (4-X.8)</a><br><a href="#">Classify quadrilaterals (4-X.9)</a><br><a href="#">Count vertices, edges, and faces (4-AA.2)</a><br><a href="#">Properties of three-dimensional figures (4-AA.4)</a> | <a href="#">Categorize Quadrilaterals</a><br><a href="#">Classify Shapes by Lines and Angle Types</a><br><a href="#">Identify Triangles by Angles</a><br><a href="#">Identify Triangles by Side Lengths</a><br><a href="#">Quadrilateral Types</a><br><a href="#">Properties of Shapes</a><br><a href="#">Compare Shapes</a> | <a href="#">Properties of a rhombus, rectangle, and a square</a><br><a href="#">Classify 2D Figures</a><br><a href="#">3D objects - Edges, Vertices, Faces and Bases</a><br><a href="#">Properties of a rectangle</a><br><a href="#">Naming Parts of 3D Shapes</a><br><a href="#">Classify Shapes Game</a><br><a href="#">Shape Interactive Practice</a><br><a href="#">3D Shape Practice</a><br><a href="#">3D Objects and 2D Shapes</a> |
| Measure Angles <b>4.GM.2.1</b><br><a href="#">Homework Help PDF</a>                                        | <a href="#">Measure angles with a protractor (4-Z.3)</a>                                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">Draw Angles</a><br><a href="#">Measure Angles</a>                                                                                                                                                                                                                                                                | <a href="#">Measuring Angles Using a Protractor</a><br><a href="#">Measuring Angles Online Practice</a><br><a href="#">Measuring angles - Degrees and Protractors</a>                                                                                                                                                                                                                                                                     |
| Area-Composite Figures <b>4.GM.2.2</b>                                                                     | <a href="#">Select figures with a given area</a>                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Decompose figures to find area 1</a><br><a href="#">Decompose figures to find area 2</a>                                                                                                                                                                                                                         | <a href="#">How to Find Area of Rectangles</a>                                                                                                                                                                                                                                                                                                                                                                                            |

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| <a href="#">Homework Help PDF</a>                                                                              | <p><a href="#">(4-BB.3)</a></p> <p><a href="#">Select two figures with the same area (4-BB.4)</a></p> <p><a href="#">Create figures with a given area (4-BB.5)</a></p> <p><a href="#">Find the area or missing side length of a rectangle (4-BB.6)</a></p> <p><a href="#">Area of complex figures (with all right angles) (4-BB.7)</a></p> <p><a href="#">Area between two rectangles (4-BB.8)</a></p>          | <p><a href="#">Area &amp; perimeter of rectangles word problems</a></p> <p><a href="#">Area of squares and rectangles</a></p>                                                                                                                                                                                                                                | <p><a href="#">Online Area Practice</a></p> <p><a href="#">Area of Composite Figures</a></p> <p><a href="#">Area of Irregular Shapes</a></p> <p><a href="#">PDF- Area of Composite Shapes</a></p>                                                                                                                                                         |
| <p>Volume <b>4.GM.2.3</b></p> <p><a href="#">Homework Help PDF</a></p>                                         | <p><a href="#">Volume (4-BB.12)</a></p>                                                                                                                                                                                                                                                                                                                                                                         | <p><a href="#">Compare Volume with Unit Cubes</a></p> <p><a href="#">Volume 1</a></p>                                                                                                                                                                                                                                                                        | <p><a href="#">Volume of Rectangular Prisms</a></p> <p><a href="#">Intro to Volume</a></p> <p><a href="#">Interactive Volume Practice-Visual</a></p>                                                                                                                                                                                                      |
| <p>Measure Length <b>4.GM.2.4</b></p> <p><a href="#">Homework Help PDF</a></p>                                 | <p><a href="#">Measure using an inch ruler (4-N.1)</a></p>                                                                                                                                                                                                                                                                                                                                                      | <p><a href="#">Measure Lengths</a></p>                                                                                                                                                                                                                                                                                                                       | <p><a href="#">How to Read Measurements on a Ruler</a></p>                                                                                                                                                                                                                                                                                                |
| <p>Length, Capacity, Mass, Temperature, and Money <b>4.GM.2.5</b></p> <p><a href="#">Homework Help PDF</a></p> | <p><a href="#">Add and subtract money amounts (4-M.4)</a></p> <p><a href="#">Add, subtract, multiply, and divide money amounts (4-M.5)</a></p> <p><a href="#">Price lists with addition and subtraction (4-M.7)</a></p> <p><a href="#">Price lists with multiplication (4-M.8)</a></p> <p><a href="#">Which customary unit is appropriate? (4-N.2)</a></p> <p><a href="#">Compare and convert customary</a></p> | <p><a href="#">Estimate mass (grams and kilograms)</a></p> <p><a href="#">Estimate volume (milliliters and liters)</a></p> <p><a href="#">Word Problems with Mass</a></p> <p><a href="#">Word Problems with Volume</a></p> <p><a href="#">Convert to smaller units (c. pt. qt. &amp; gal)</a></p> <p><a href="#">Convert to smaller units (g and kg)</a></p> | <p><a href="#">PRACTICE WITH MULTIPLICATION WORD PROBLEMS</a></p> <p><a href="#">Solving Word Problems: Magic Words!</a></p> <p><a href="#">adding 5 and 6 digit numbers</a></p> <p><a href="#">Subtracting 4 digit numbers with regrouping</a></p> <p><a href="#">Word Problems Using Division</a></p> <p><a href="#">The Steps to Long Division</a></p> |

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|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  | <p><u>units of length (4-N.3)</u></p> <p><u>Compare and convert customary units of volume (4-N.5)</u></p> <p><u>Compare and convert customary units (4-N.6)</u></p> <p><u>Conversion tables - customary units (4-N.7)</u></p> <p><u>Compare customary units by multiplying (4-N.8)</u></p> <p><u>Convert mixed customary units (4-N.9)</u></p> <p><u>Add and subtract mixed customary units (4-N.10)</u></p> <p><u>Which metric unit is appropriate? (4-N.11)</u></p> <p><u>Compare and convert metric units of length (4-N.12)</u></p> <p><u>Compare and convert metric units of volume (4-N.14)</u></p> <p><u>Compare and convert metric units (4-N.15)</u></p> <p><u>Conversion tables - metric units (4-N.16)</u></p> <p><u>Convert metric mixed units (4-N.17)</u></p> <p><u>Add and subtract metric mixed units (4-N.18)</u></p> <p><u>Convert between metric and customary units (4-N.19)</u></p> <p><u>Area and perimeter: word problems</u></p> |  |  |
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|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                         | <a href="#"><u>(4-BB.11)</u></a>                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Time <b>4.GM.3.1</b> and <b>4.GM.3.2</b><br><br><a href="#">Homework Help PDF</a>       | <a href="#"><u>Elapsed time (4-O.5)</u></a><br><br><a href="#"><u>Elapsed time: word problems (4-O.6)</u></a><br><br><a href="#"><u>Find start and end times: multi-step word problems (4-O.7)</u></a><br><br><a href="#"><u>Convert time units (4-O.1)</u></a><br><br><a href="#"><u>Add and subtract mixed time units (4-O.2)</u></a><br><br><a href="#"><u>Fractions of time units (4-O.3)</u></a> | <a href="#"><u>Estimating time (seconds, minutes, and hours)</u></a><br><br><a href="#"><u>Time differences</u></a><br><br><a href="#"><u>Time conversion word problems</u></a> | <a href="#"><u>Converting Units of Time (Minutes to Hours)</u></a><br><br><a href="#"><u>Convert Minutes to Hours</u></a><br><br><a href="#"><u>Convert Units Of Time</u></a><br><br><a href="#"><u>Converting Units of Time Examples</u></a><br><br><a href="#"><u>Basic Math Tutorial - 11 - Word Problems with Time</u></a><br><br><a href="#"><u>Elapsed Time: T-Chart Strategy</u></a><br><br><a href="#"><u>Elapsed Time: Number Line Strategy</u></a><br><br><a href="#"><u>Elapsed Time</u></a><br><br><a href="#"><u>Telling Time Word Problems Worksheets, Lessons, and Printables</u></a><br><br><a href="#"><u>Time Conversion Games</u></a><br><br><a href="#"><u>On-Time Analog Clock Game</u></a><br><br><a href="#"><u>Learn Quickly How to Read the Time on a Clock</u></a><br><a href="#"><u>How to Tell Time</u></a> |
| <b>Data and Probability</b>                                                             |                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Display Data <b>4.D.1.1</b> and <b>4.D.1.2</b><br><br><a href="#">Homework Help PDF</a> | <a href="#"><u>Convert time units (4-O.1)</u></a><br><br><a href="#"><u>Add and subtract mixed time units (4-O.2)</u></a><br><br><a href="#"><u>Fractions of time units (4-O.3)</u></a><br><br><a href="#"><u>Read a table (4-J.1)</u></a><br><br><a href="#"><u>Interpret line graphs (4-J.2)</u></a><br><br><a href="#"><u>Create line graphs (4-J.3)</u></a>                                       | <a href="#"><u>Creating dot plots</u></a><br><br><a href="#"><u>Create bar graphs</u></a>                                                                                       | <a href="#"><u>Constructing a Line Plot</u></a><br><br><a href="#"><u>Use and Make Line Plots</u></a><br><br><a href="#"><u>Creating a Bar Graph</u></a><br><br><a href="#"><u>How to Make a Bar Graph</u></a><br><br><a href="#"><u>Making Frequency Tables, Line Plots, and Bar Graphs</u></a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        | <a href="#">Interpret bar graphs (4-J.4)</a><br><br><a href="#">Create bar graphs (4-J.5)</a><br><br><a href="#">Interpret line plots (4-J.6)</a><br><br><a href="#">Create line plots (4-J.7)</a><br><br><a href="#">Create and interpret line plots with fractions (4-J.8)</a><br><br><a href="#">Frequency charts (4-J.9)</a><br><br><a href="#">Stem-and-leaf plots (4-J.10)</a><br><br><a href="#">Circle graphs (4-J.11)</a> |                                                      |                                                                                                                                                       |
| Interpret Data <b>4.D.1.3</b><br><br><a href="#">Homework Help PDF</a> | <a href="#">Create line graphs (4-J.3)</a><br><br><a href="#">Create bar graphs (4-J.5)</a><br><br><a href="#">Interpret line plots (4-J.6)</a><br><br><a href="#">Create line plots (4-J.7)</a><br><br><a href="#">Create and interpret line plots with fractions (4-J.8)</a><br><br><a href="#">Frequency charts (4-J.9)</a>                                                                                                     | <a href="#">Interpret dot plots with fractions 1</a> | <a href="#">Solve word problems by creating and interpreting line plots</a><br><br><a href="#">Solve problems by interpreting data on a line plot</a> |