

Unit Name	Investigations	Sessions	Main Math Ideas	Assessments
<b>Unit 7 – HOW MANY PACKAGES &amp; GROUPS</b> <i>Multiplication and Division 3</i>	1-3	18 Approx. 18-20 days		Checklists, Games Quizzes and Unit Test
<p><b>4.OA.A.2</b> Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.</p> <p><b>4.OA.A.3</b> Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.</p> <p><b>4.OA.B.4</b> Find all factor pairs for a whole number in the range 1–100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1–100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1–100 is prime or composite.</p> <p><b>4.NBT.B.4</b> Fluently add and subtract multi-digit whole numbers using the standard algorithm.</p> <p><b>4.NBT.B.5</b> Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p> <p><b>4.NBT.B.6</b> Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p> <p><b>4.NF.A.1</b> Explain why a fraction <math>a/b</math> is equivalent to a fraction <math>(n \times a)/(n \times b)</math> by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.</p> <p><b>4.NF.B.4c</b> Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem. For example, if each person at a party will eat <math>3/8</math> of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?</p> <p><b>4.MD.A.1</b> Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...</p> <p><b>4.MD.A.2</b> Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.</p>	<p><b>1- MULTIPLICATION WITH 2-DIGIT NUMBERS</b></p> <p><b>2- STRATEGIES FOR MULTIPLICATION</b></p> <p><b>3- SOLVING DIVISION PROBLEMS</b></p>	<p><b>1.1 – 1.7</b></p> <p><b>2.1 – 2.5</b></p> <p><b>3.1 – 3.6</b></p>	<p>Solving measurement problems</p> <p>Solving multiplication problems</p> <p>Solving multiplication problems</p> <p>Solving multiplication problems</p> <p>Solving multiplication problems</p> <p>Solving division problems</p>	<p>A56 Assessment Checklist, Sessions 1.6 and 1.7</p> <p>Quiz 1 A57-57 Session 2.3</p> <p>A59 Assessment Checklist, Sessions 2.4 and 2.5</p> <p>A60 Two Multiplication Problems Session 2.5</p> <p>Quiz 2 A61 Session 3.5</p> <p>A62 Multiplication &amp; Division Session 3.6</p> <p><b>UNIT 7 TEST</b></p>

