


Unit 1: Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10

Common Core State Standard	Practice	Example/Note
<u>3.OA.1</u>	<u>Identify Multiplication Expressions for Equal Groups</u>	<p>Which expression describes this array?</p> 
<u>3.OA.2</u>	<u>Divide by Counting Equal Groups</u> <u>Write Division Sentences for Groups</u> <u>Write Division Sentences for Arrays</u> <u>Division Word Problems</u> <u>Complete the Division Table</u>	<p>Nikki has 42 glitter stickers to share with her friends at the sleepover. There are 6 girls invited to the sleepover. Write a division expression that represents the number of stickers each girl will receive.</p> <p>Notes: Students should be able to use what they have learned about repeated subtraction, pictures, arrays, or number lines to solve division word problems.</p>
<u>3.OA.3</u>	<u>Write Multiplication Sentences for Equal Groups</u> <u>Multiplication Input/Output Tables: Find the Rule</u> <u>Multiplication Word Problems</u> <u>Multiplication Word Problems: Finding the Missing Factor</u> <u>Multiply Three or More Numbers: Word Problems</u> <u>Division Input/Output Tables: Find the Rule</u> <u>Division Word Problems</u>	<p>Ted is selling popcorn to raise money for his baseball team. There are 8 packages of popcorn in each box. Ted has sold 6 boxes. How many packages of popcorn has Ted sold? Use objects or drawings to help you solve this problem. Write an equation to show your work.</p> <p>Monte arranged his toy soldiers in straight rows. He made 6 rows with five soldiers in each row. How many toy soldiers did Monte have? Use objects or drawings to help you solve this problem. Write an equation to show your work.</p>
<u>3.OA.4</u>	<u>Multiplication Facts up to 12: find the Missing Factor</u> <u>Division Facts up to 10: Find the Missing Number</u>	<p>$20 \div ? = 5$ $? \text{ groups of } 5 \text{ equal } 25$</p>
<u>3.OA.5</u>	<u>Properties of Multiplication</u> <u>Distributive Property: Find the Missing Factor</u> <u>Multiply Using the Distributive Property</u> <u>Solve Using Properties of Multiplication</u> <u>Relate Multiplication and Division</u>	<p>If $17 \times 13 = 91$, then $91 \div \underline{\quad} = 7$</p>

<p><u>3.OA.6</u></p>	<p><u>Multiplication Facts up to 12: find the Missing Factor</u> <u>Multiplication Word Problems: Find the Missing Factor</u> <u>Relate Multiplication and Division for Groups</u> <u>Relate Multiplication and Division for Arrays</u> <u>Relate Multiplication and Division</u></p>	<p>If each box of chocolate contains 2 chocolates, how many boxes does she need to buy to get 10 chocolates?</p> <p>If each bowl can hold 5 oranges and Tom has 20 oranges, how many bowls will he need?</p>
<p><u>3.OA.7</u></p>	<p><u>Multiplication tables up to 12</u> <u>Division Facts up to 12</u> <u>Solve Using Properties of Multiplication</u></p>	<p>Randy has 36 quarters. He puts them in stacks of 4 to count them. How many stacks of quarters does Randy have? Explain how you solved this problem.</p> <p>There are 4 cups. Each cup contains 5 beans. How many total beans are there?</p>
<p><u>3.OA.8</u></p>	<p><u>Addition, Subtraction, Multiplication, and Division Word Problems</u> <u>Multi-step Word Problems</u> <u>Write Variable Equations to Represent Word Problems</u> <u>Rounding</u></p>	<p>Felix needs 29 cartons of berries to make a berry cobbler. He already has 10 cartons of strawberries and 3 cartons of blueberries. How many more cartons of berries should Felix buy?</p> <p>A chef opened a jar of olives. He used them to make 5 identical plates. There were 18 olives on each plate. Write an equation that will tell how many olives were in the jar. Use a variable in your equation.</p>