

Correlation to Common Core Standards

Grade 3

EPISODE	EXAMPLES	PREPARING FOR STANDARDS
<p>1</p> <p>Estimating and Rounding to 1,000</p>	<p><i>in between</i> <i>closer to</i> <i>round</i> <i>nearest hundred</i> <i>nearest ten</i></p>	<p>3.NBT Numbers & Operations in Base Ten</p> <p>Use place value understanding and properties of operations to perform multi-digit arithmetic. <u>CCSS.MATH.CONTENT.3.NBT.A.1</u> Use place value understanding to round whole numbers to the nearest 10 or 100.</p>
<p>2</p> <p>Visualizing Tens and Hundreds</p>	<p><i>tens</i> <i>hundreds</i> <i>24 tens equals 240</i> <i>12 dimes are worth 120 cents</i></p>	<p>3.NBT Numbers & Operations in Base Ten</p> <p>Use place value understanding and properties of operations to perform multi-digit arithmetic. <u>CCSS.MATH.CONTENT.3.NBT.A.2</u> Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.</p> <p><u>CCSS.MATH.CONTENT.3.NBT.A.3</u> Multiply one-digit whole numbers by multiples of 10 in the range 10-90 (e.g., 9×80, 5×60) using strategies based on place value and properties of operations.</p>

<p style="text-align: center;">3 Multiplication</p>	<p><i>equal groups</i></p> <p><i>times</i></p> <p><i>product</i></p> <p><i>factor</i></p> <p><i>twice as tall</i></p> <p><i>3 times as long</i></p>	<p>3.OA Operations & Algebraic Thinking</p> <p>Represent and solve problems involving multiplication and division. <small>CCSS.MATH.CONTENT.3.OA.A.1</small> Interpret products of whole numbers, e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each.</p> <p><small>CCSS.MATH.CONTENT.3.OA.A.3</small> Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.</p> <p><small>CCSS.MATH.CONTENT.3.OA.A.4</small> Determine the unknown whole number in a multiplication or division equation relating three whole numbers.</p> <p>Understand properties of multiplication and the relationship between multiplication and division. <small>CCSS.MATH.CONTENT.3.OA.B.5</small> Apply properties of operations as strategies to multiply and divide.</p> <p>Multiply and divide within 100. <small>CCSS.MATH.CONTENT.3.OA.C.7</small> Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.</p>
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<p style="text-align: center;">4 Division</p>	<p><i>divided into pieces</i></p> <p><i>divided by</i></p> <p><i>quotient</i></p> <p><i>how many in each group</i></p> <p><i>how many groups</i></p> <p><i>half as many</i></p>	<p>3.OA Operations & Algebraic Thinking</p> <p>Represent and solve problems involving multiplication and division. CCSS.MATH.CONTENT.3.OA.A.2 Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each.</p> <p>CCSS.MATH.CONTENT.3.OA.A.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.</p> <p>CCSS.MATH.CONTENT.3.OA.A.4 Determine the unknown whole number in a multiplication or division equation relating three whole numbers.</p> <p>Understand properties of multiplication and the relationship between multiplication and division. CCSS.MATH.CONTENT.3.OA.B.5 Apply properties of operations as strategies to multiply and divide.</p> <p>CCSS.MATH.CONTENT.3.OA.B.6 Understand division as an unknown-factor problem.</p> <p>Multiply and divide within 100. CCSS.MATH.CONTENT.3.OA.C.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.</p>
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<p style="text-align: center;">5</p> <p style="text-align: center;">Multiplying Larger Numbers</p>	<p><i>2 groups of 3 tens</i></p> <p><i>7 stacks of 30 cans each</i></p> <p><i>times</i></p> <p><i>array</i></p> <p><i>models</i></p>	<p>3.NBT Numbers & Operations in Base Ten</p> <p>Use place value understanding and properties of operations to perform multi-digit arithmetic. <small>CCSS.MATH.CONTENT.3.NBT.A.3</small> Multiply one-digit whole numbers by multiples of 10 in the range 10-90 (e.g., 9×80, 5×60) using strategies based on place value and properties of operations.</p>
<p style="text-align: center;">6</p> <p style="text-align: center;">Unit Fractions in Words</p>	<p><i>equal parts</i></p> <p><i>1 half of</i></p> <p><i>1 third of</i></p> <p><i>1 fourth of</i></p> <p><i>1 sixth of</i></p> <p><i>halfway'</i></p> <p><i>cut in half</i></p> <p><i>1 third of the way</i></p>	<p>3.NF Numbers & Operations – Fractions</p> <p>Develop understanding of fractions as numbers. <small>CCSS.MATH.CONTENT.3.NF.A.1</small> Understand a fraction $1/b$ as the quantity formed by 1 part when a whole is partitioned into b equal parts;</p> <p><small>CCSS.MATH.CONTENT.3.NF.A.2</small> Understand a fraction as a number on the number line; represent fractions on a number line diagram. <small>CCSS.MATH.CONTENT.3.NF.A.2.A</small> Represent a fraction $1/b$ on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts. Recognize that each part has size $1/b$ and that the endpoint of the part based at 0 locates the number $1/b$ on the number line.</p> <p>3.G Geometry</p> <p>Reason with shapes and their attributes. <small>CCSS.MATH.CONTENT.3.G.A.2</small> Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. <i>For example, partition a shape into 4 parts with equal area, and describe the area of each part as $1/4$ of the area of the shape.</i></p>