

MATH CONTENT STANDARDS (3RD GRADE)
LESSONS AND ACTIVITIES

<p>Content.3.OA.A.1 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>Hula-Hoop Multiplication (p. 17) Cookies and Chips (p. 19) Egg Carton Groups (p. 23) Fishbowl Multiplication (p. 26) Do the Math: Multiplication (p. 32) Picture This: Multiplication (p. 34) Object Arrays (p. 41) Linking Cube Arrays (p. 43) Graph Paper Arrays (p. 45) Rectangle Race (p. 48) Multiplication Table Arrays (p. 52)</p>
<p>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>Fair Shares Exploration (p. 62) Fishbowl Division (p. 64) Division Mix-up (p. 74) Do the Math: Division (p. 82) Picture This: Division (p. 85)</p>
<p>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>Do the Math: Multiplication (p. 32) Picture This: Multiplication (p. 34) Do the Math: Division (p. 82) Picture This: Division (p. 85)</p>
<p>Content.3.OA.A.4 Determine the unknown whole number in a multiplication or division equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations $8 \times ? = 48$, $5 = _ \div 3$, $6 \times 6 = ?$</p>	<p>Linking Cube Arrays (p. 43) Fishbowl Division (p. 64) Mystery Multiplication (p. 177)</p>
<p>Content.3.OA.B.5 Apply properties of operations as strategies to multiply and divide. Example: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known. (Commutative property of multiplication.)</p>	<p>Linking Cube Arrays (p. 43) Multiplication Table Arrays (p. 52) Math Fact Families (p. 77)</p>
<p>Content.3.OA.B.6 Understand division as an unknown-factor problem. For example, find $32 \div 8$ by finding the number that makes 32 when multiplied by 8.</p>	<p>Fishbowl Division (p. 64)</p>
<p>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>	<p>Rectangle Race (p. 48) Introducing Math Facts (p. 56) Math Fact Families (p. 77) Mastering Math Facts System – Chapter 2 (p. 97) All assessments in Chapter 3 (p. 139) All math facts practice activities in Chapter 4 (p. 173)</p>

MATH PRACTICE STANDARDS (ALL GRADES)
LESSONS AND ACTIVITIES

<p>Practice.MP1 Make sense of problems and persevere in solving them.</p>	<p>Do the Math: Multiplication (p. 32) Picture This: Multiplication (p. 34) Do the Math: Division (p. 82) Picture This: Division (p. 85) Mystery Multiplication (p. 177)</p>
<p>Practice.MP4 Model with mathematics.</p>	<p>Hula-Hoop Multiplication (p. 17) Cookies and Chips (p. 19) Egg Carton Groups (p. 23) Fishbowl Multiplication (p. 26) Do the Math: Multiplication (p. 32) Picture This: Multiplication (p. 34) Object Arrays (p. 41) Linking Cube Arrays (p. 43) Graph Paper Arrays (p. 45) Rectangle Race (p. 48) Multiplication Table Arrays (p. 52) Introducing Math Facts (p. 56) Fair Shares Exploration (p. 62) Fishbowl Division (p. 64) Division Mix-up (p. 74) Math Fact Families (p. 77) Do the Math: Division (p. 82) Picture This: Division (p. 85)</p>
<p>Practice.MP5 Use appropriate tools strategically.</p>	<p>Linking Cube Arrays (p. 43) Graph Paper Arrays (p. 45) Multiplication Table Arrays (p. 52) Introducing Math Facts (p. 56) Mystery Multiplication (p. 177)</p>
<p>Practice.MP6 Attend to precision (in mathematical communication).</p>	<p>Hula-Hoop Multiplication (p. 17) Fishbowl Multiplication (p. 26) Object Arrays (p. 41) Linking Cube Arrays (p. 43) Graph Paper Arrays (p. 45) Multiplication Table Arrays (p. 52) Fishbowl Division (p. 64) Division Mix-Up (p. 74) Math Fact Families (p. 77)</p>
<p>Practice.MP7 Look for and make use of structure.</p>	<p>Object Arrays (p. 41) Linking Cube Arrays (p. 43) Graph Paper Arrays (p. 45) Multiplication Table Arrays (p. 52) Introducing Math Facts (p. 56) Math Fact Families (p. 77) Mystery Multiplication (p. 177)</p>