

# Explore Fractions

## Learning Progressions for the Common Core Standards Number and Operations—Fractions and Geometry

| In Grade 2, students   | In Grade 3, students will  | In Grade 4, students will  |
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| <ul style="list-style-type: none"> <li>partitioned circles and rectangles into two, three, or four equal shares.</li> <li>used the words <i>halves</i>, <i>thirds</i>, <i>half of</i>, <i>a third of</i>, and described the whole as <i>two halves</i>, <i>three thirds</i>, and <i>four fourths</i>.</li> <li>recognized that equal shares of identical wholes need not have the same shape.</li> </ul> | <ul style="list-style-type: none"> <li>understand the meaning of fractions and see that fractions must be equal parts of the same whole.</li> <li>build non-unit fractions from unit fractions.</li> <li>represent fractions in various ways, including fraction bars, number lines, and fraction strips.</li> <li>compare unit fractions and compare fractions with either the same numerator or the same denominator.</li> <li>find equivalent fractions.</li> </ul> | <ul style="list-style-type: none"> <li>compare fractions with different numerators and different denominators.</li> <li>recognize and generate equivalent fractions.</li> <li>add and subtract fractions and mixed numbers.</li> <li>multiply a fraction by a whole number.</li> <li>express a fraction as a decimal.</li> <li>compare decimal fractions.</li> </ul> |

## Content Standards Across the Grades

| Grade 2   | Grade 3   | Grade 4  |
|---|---|--|
| <ul style="list-style-type: none"> <li>Reason with shapes and their attributes. [CC.2.G.1]</li> </ul> | <ul style="list-style-type: none"> <li>Develop understanding of fractions as numbers. [CC.3.NF.1, CC.3.NF.2, CC.3.NF.2a, CC.3.NF.2b, CC.3.NF.3, CC.3.NF.3a, CC.3.NF.3b, CC.3.NF.3c, CC.3.NF.3d]</li> <li>Reason with shapes and their attributes. [CC.3.G.2]</li> </ul> | <ul style="list-style-type: none"> <li>Extend understanding of fraction equivalence and ordering. [CC.4.NF.1, CC.4.NF.2]</li> <li>Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. [CC.4.NF.3, CC.4.NF.3a, CC.4.NF.3b, CC.4.NF.3c, CC.4.NF.3d, CC.4.NF.4, CC.4.NF.4a, CC.4.NF.4b, CC.4.NF.4c]</li> <li>Understand decimal notation for fractions, and compare decimal fractions. [CC.4.NF.5, CC.4.NF.6, CC.4.NF.7]</li> </ul> |