

## Year 5 Rubric – Fractions and Decimals

	Understands the relationship between fractions and decimals	Read, write, compare and order fractions and decimals	Simplifies fractions	Converts improper fractions to mixed numbers and vice versa	Adds and subtracts common fractions with related denominators	Finds fractions of shapes, sets and quantities
Advanced	<p>Explains the relationship between fractions, decimals and percentages</p> <p>Converts between fractions, decimals and percentages (e.g. <math>1/5 = 20\% = 0.2</math>)</p> <p>Converts tenths and hundredths to decimals and percentages (e.g. <math>3/10 = 0.3 = 30\%</math>) and the reverse</p>	<p>Orders percentages comparing it to the whole e.g., which is bigger? 10% of 1000 or 60% of 100</p> <p>Orders fractions, decimals and percentages on a number line (e.g. <math>1/3, 0.4, 45\%</math>)</p>	<p>Simplifies fractions (e.g. <math>6/10 = 3/5</math>) to the lowest term</p> <p>Converts fractions to lowest terms, written and mental. (e.g. <math>6/10 = 3/5</math>)</p> <p>Understands and uses equivalent fractions (e.g. <math>2/4 = 4/8</math>).</p>	<p>Converts mixed numbers to improper fractions and vice versa (e.g. <math>1 \frac{1}{4} = 5/4</math>) – Includes complex numbers</p> <p>Converts improper fractions to mixed numbers by division</p>	<p>Adds fractions by changing the denominators (e.g. <math>5/7 + 5/12</math>)</p> <p>Subtract fractions by changing the denominators</p> <p>Demonstrates understanding of addition and subtraction of fractions through everyday problem solving</p>	<p>Finds complex fractions, decimals and percentages of quantities (e.g. <math>2/3</math> of 21 is 14)</p> <p>Finds the whole, given the fractional part (e.g. if <math>2/3</math> of the whole is 14, what is the whole?)</p>
3 = Proficient (Phase 3)	<p>Explains what decimals are, using the vocabulary 'part' and 'whole'</p> <p>Explains what fractions are, using the vocabulary, part, whole, denominator and numerator</p> <p>Explains the relationship between fractions and decimals (both are parts of a whole)</p> <p>Converts between common fractions and decimals (e.g. <math>1/2 = 0.5</math> <math>1/4 = 0.25</math> <math>3/4 = 0.75</math>)</p> <p>Converts tenths and hundredths to decimals (e.g. <math>3/10 = 0.3</math>) and the reverse</p>	<p>Sequences and orders fractions (e.g. <math>4/10, 1/2, 9/10</math>) – including fractions with different denominators</p> <p>Continues, creates and describes patterns involving fractions (e.g. <math>1/4, 1/2, 3/4, 1</math>)</p> <p>Reads, writes and compares and orders decimals (up to two places)</p>	<p>Simplifies fractions (e.g. <math>4/12 = 2/6</math>) – may not be to lowest term</p> <p>Recognizes simple equivalent fractions e.g. <math>1/2</math> as <math>2/4</math> etc</p>	<p>Converts simple mixed numbers to improper fractions and vice versa (e.g. <math>1 \frac{1}{4} = 5/4</math>)</p> <p>Some errors may occur</p>	<p>Adds common fractions by changing one denominator (e.g. <math>1/2 + 3/4</math>)</p> <p>Subtracts common fractions by changing one denominator</p>	<p>Finds fractions of shapes</p> <p>Find fractions of sets</p> <p>Finds fractions of quantities/numbers (e.g. <math>2/3</math> of 21 is 14)</p>

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<b>Consolidating 2</b>	<p><i>With support:</i></p> <p>Explains what decimals are, using the vocabulary 'part' and 'whole'</p> <p>Explains what fractions are, using the vocabulary, part, whole, denominator and numerator</p> <p>Explains the relationship between fractions and decimals (both are parts of a whole)</p> <p>Converts between common fractions and decimals (e.g. <math>\frac{1}{2} = 0.5</math> <math>\frac{1}{4} = 0.25</math> <math>\frac{3}{4} = 0.75</math>)</p> <p>Converts tenths and hundredths to decimals (e.g. <math>\frac{3}{10} = 0.3</math>) and the reverse</p>	<p><i>With support:</i></p> <p>Sequences and orders fractions (e.g. <math>\frac{4}{10}</math>, <math>\frac{1}{2}</math>, <math>\frac{9}{10}</math>) – simple, common denominators</p> <p>Continues, creates and describes patterns involving fractions (e.g. <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math>, 1)</p> <p>Reads, writes and compares and orders decimals (up to two places)</p>	<p><i>With support:</i></p> <p>Simplifies fractions (e.g. <math>\frac{4}{12} = \frac{2}{6}</math>) – may not be to lowest term</p> <p>Recognizes simple equivalent fractions e.g. <math>\frac{1}{2}</math> as <math>\frac{2}{4}</math> etc</p>	<p><i>With support:</i></p> <p>Converts simple mixed numbers to improper fractions and vice versa (e.g. <math>1 \frac{1}{4} = \frac{5}{4}</math>)</p>	<p><i>With support:</i></p> <p>Adds common fractions by changing one denominator (e.g. <math>\frac{1}{2} + \frac{3}{4}</math>)</p> <p>Subtracts common fractions by changing one denominator</p>	<p><i>With support:</i></p> <p>Finds fractions of shapes</p> <p>Find fractions of sets</p> <p>Finds fractions of quantities/numbers (e.g. <math>\frac{2}{3}</math> of 21 is 14)</p> <p><i>Simpler numbers to be used or common fractions</i></p>
<b>Beginning 1</b>	<p><i>With support:</i></p> <p>Explains what fractions are, using the vocabulary, part, whole, denominator and numerator</p> <p>Explains what decimals are, using the vocabulary 'part' and 'whole'</p>	<p><i>With support:</i></p> <p>Reads, writes and orders common fractions (e.g. <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>)</p> <p>Reads and writes and orders decimals to one place</p>	<p><i>With support:</i></p> <p>Models simple equivalent fractions (e.g. <math>\frac{1}{2} = \frac{2}{4}</math>)</p>	<p><i>With support:</i></p> <p>Models simple mixed numbers to improper fractions using concrete materials (e.g. <math>1 \frac{1}{2} = \frac{3}{2}</math>)</p>	<p><i>With support:</i></p> <p>Adds and subtracts fractions with like denominators (<math>\frac{1}{4} + \frac{2}{4}</math>)</p>	<p><i>With support:</i></p> <p>Finds fractions of simple shapes</p> <p>Finds fractions of small quantities (e.g. <math>\frac{1}{2}</math> of 10 is 5)</p> <p><i>May need to use equipment to divide</i></p>