

Bits and Pieces I Toolkit

What? (vocab, important concepts)	Why? (definitions, illustrations, diagrams, ideas, explanations)
fractions	Definition: A way to show a part of a whole using two whole numbers separated by a bar. Example: $\frac{1}{2}$, $\frac{5}{16}$ 1 means 1 piece of 2 total pieces.
numerator	Definition: The top number in a fraction. Example: In $\frac{3}{4}$, 3 is the numerator.
denominator	Definition: The bottom number in a fraction. Example: In $\frac{2}{3}$, 3 is the denominator
equivalent fractions	Definition: Fractions that have the same value. Example: $\frac{1}{3}$ has the same value as $\frac{2}{6}$ so they are equivalent fractions.
benchmark	Definition: A reference number that can be used to estimate the size of other numbers. Example: An appropriate benchmark fraction for $\frac{5}{8}$ is $\frac{1}{2}$.

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mixed number	<p>Definition: A number that has both a whole number and a fractional part.</p> <p>Example: The number $8 \frac{1}{2}$ is a mixed number.</p>
improper fraction	<p>Definition: A fraction that has a numerator equal to or greater than the denominator.</p> <p>Example: The number $16/13$ is an improper fraction. Other examples: $2/2$, $5/1$, $17/11$</p>
rational numbers	<p>Definition: A number that can be written in fraction form using a whole number for the numerator and denominator.</p> <p>Example: The numbers $4/5$, $7/10$ and $15/4$ are rational numbers.</p>

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decimals	<p>Definition: A special way to write fractions using denominators of 10, 100, 1,000, 10,000, 100,000, 1,000,000, etc.</p> <p>Example:</p> <p>0.01 is equal $1/100$</p> <p>0.518 is equal to $518/1000$</p> <p>0.4 is equal to $4/10$</p>
percent	<p>Definition: A way to write a part something out of 100.</p> <p>Example:</p> <p>8% means 8 out of 100 or $8/100$</p> <p>77% means 77 out of 100</p>
ratio	<p>Definition: A comparison of two quantities.</p> <p>Example:</p> <p>If there is a class of 32 students and 14 are boys, the ratio of boys to students is 14:32.</p>