
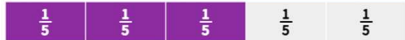



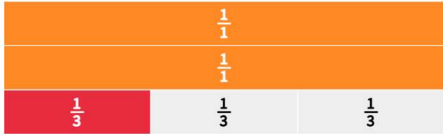
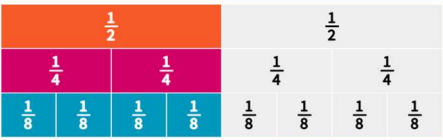
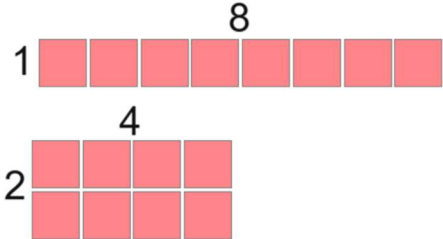
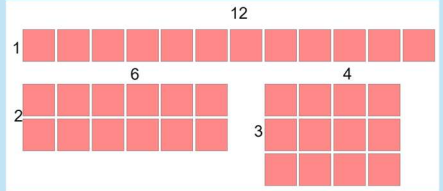
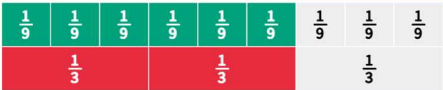
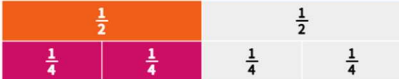


# MATHEMATICAL VOCABULARY: FRACTIONS

Word	What does it mean?	Example	Visual prompt
<b>Fraction</b>	A way to represent a part of a whole. It has a numerator (top number) and a denominator (bottom number).	$\frac{1}{2}$	 <p><b>Make it:</b> Get a strip of paper. Fold it exactly in half. Shade one-half.</p>
<b>Numerator</b>	The top number in a fraction, showing how many parts are taken or shaded.	$\frac{3}{5} = \frac{\text{Numerator}}{\text{Denominator}}$ <i>How many parts are taken</i> <i>Total number of parts</i>	 <p><b>Make it real:</b> Imagine a chocolate bar that has five squares. You eat three of those squares. As a fraction of the total bar, how much have you eaten?</p>
<b>Denominator</b>	The bottom number in a fraction, showing how many equal parts the whole is divided into.	$\frac{3}{5} = \frac{\text{Numerator}}{\text{Denominator}}$ <i>How many parts are taken</i> <i>Total number of parts</i>	
<b>Proper Fraction</b>	A fraction where the numerator is smaller than the denominator.	$\frac{3}{4}$	
<b>Improper Fraction</b>	A fraction where the numerator is larger than or equal to the denominator.	$\frac{7}{4}$	

<b>Mixed Number</b>	A number made up of a whole number and a fraction.	$2\frac{1}{3}$	 <p><b>Make it real:</b> You drink two whole glasses of milk. You fill another glass but only drink a third of it.</p>
<b>Equivalent Fractions</b>	Fractions that have the same value but different numerators and denominators.	$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$	
<b>Factor</b>	A number that divides exactly into another.	Factors of 8 are 1, 2, 4, 8.	 <p><b>Visualise it:</b> How many rectangular arrays can you make with 8 counters. The numbers on the side of the arrays are factors.</p>
<b>Common Factor</b>	When we compare the factors of two or more numbers, any factors that divide equally into both numbers are common factors.	Common factors of 8 and 12 are 1, 2 and 4.	

<b>Highest Common Factor</b>	When we compare the factors of two or more numbers, the highest number that divides exactly into two or more numbers is the highest common factor.	The highest common factor of 8 and 12 is 4.	<b>Factors of 8:</b> 1, 2, 4, 8 <b>Factors of 12:</b> 1, 2, 3, 4, 6, 12 <b>Highest common factors:</b> 4
<b>Simplified Fraction</b>	A simplified fraction is a fraction that has been reduced to the smallest numbers possible.	$\frac{6}{9} = \frac{2}{3}$	
<b>Common Denominator</b>	A shared denominator for two or more fractions, used for comparing or adding.	$\frac{1}{4}$ and $\frac{1}{2}$ both have a common denominator of 4	

Images created using free virtual manipulatives available at MathsBot.com: factor and common factor.  
 All other images made using the free virtual manipulatives available at Polypad, by Amplify.