
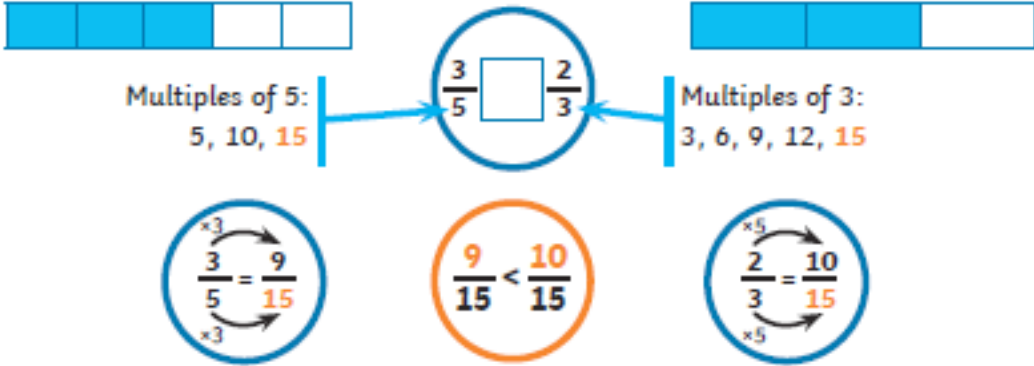

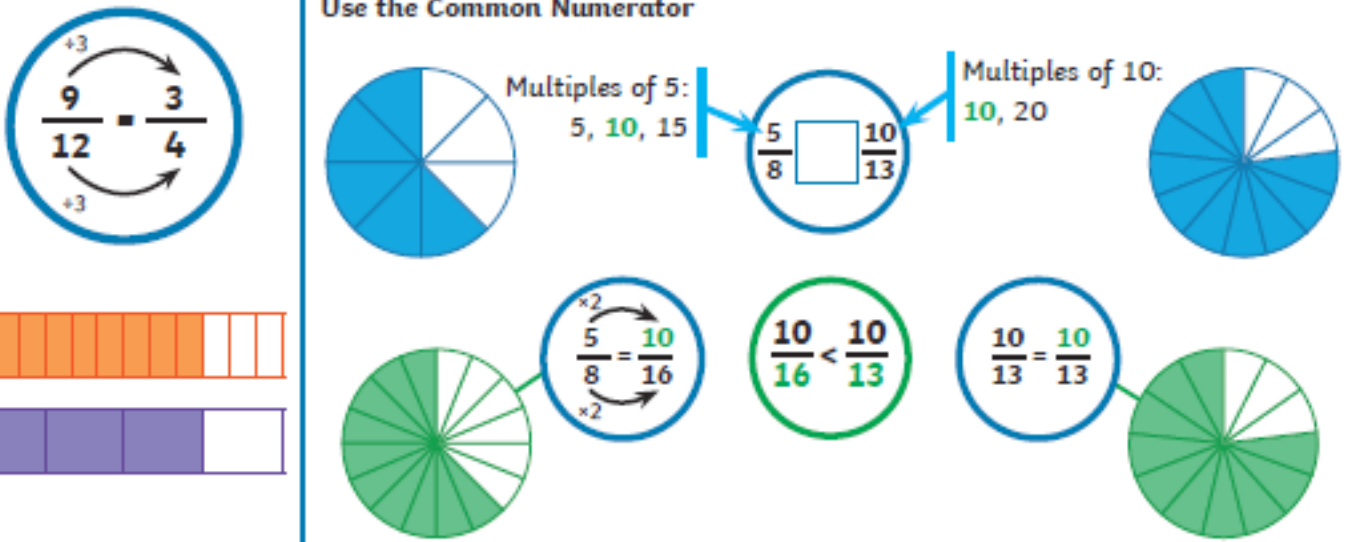





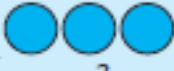


Year 6 Maths - Autumn 2 Fractions

Fractions		Knowledge Organiser
Key Vocabulary	Simplify Fractions	Compare and Order Fractions
numerator	 <p>Factors of 9: 1, 3, 9</p> <p>Factors of 12: 1, 2, 3, 4, 6, 12</p>	<p>Use the Common Denominator</p>  
denominator		
proper fraction		
improper fraction		
factor		
highest common multiple		
lowest common multiple		
equivalents	  	
common numerator		
common denominator		
decimal equivalent		
simplify		
simplest form		
mixed number		
whole number		
mixed number		

Knowledge Organiser

Year 6 Maths - Autumn 2 Fractions

Fractions	Knowledge Organiser
Adding and Subtracting Proper Fractions	Adding and Subtracting Mixed Numbers
<p>Same Denominators</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  $\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$ </div> <div style="text-align: center;">  $\frac{8}{11} - \frac{3}{11} = \frac{5}{11}$ </div> </div> <p>Different Denominators</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> $\frac{2}{7} + \frac{3}{5}$ <p>Multiples of 7: 7, 14, 21, 28, 35 Multiples of 5: 5, 10, 15, 20, 25, 30, 35</p> $\frac{2}{7} = \frac{10}{35}, \frac{3}{5} = \frac{21}{35}$ $\frac{10}{35} + \frac{21}{35} = \frac{31}{35}$ </div> <div style="text-align: center;"> $\frac{9}{10} - \frac{1}{4}$ <p>Multiples of 10: 10, 20 Multiples of 4: 4, 8, 12, 16, 20</p> $\frac{9}{10} = \frac{18}{20}, \frac{1}{4} = \frac{5}{20}$ $\frac{18}{20} - \frac{5}{20} = \frac{13}{20}$ </div> </div>	<p>Add or subtract the whole numbers and fractions separately.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> $2\frac{2}{5} + 1\frac{3}{10}$ $2 + 1 = 3$ $\frac{2}{5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \frac{7}{10}$ $3 + \frac{7}{10} = 3\frac{7}{10}$ </div> <div style="text-align: center;"> $2\frac{1}{2} - 1\frac{1}{4}$ $2 - 1 = 1$ $\frac{1}{2} - \frac{1}{4} = \frac{2}{4} - \frac{1}{4} = \frac{1}{4}$ $1 + \frac{1}{4} = 1\frac{1}{4}$ </div> </div> <p>Convert the mixed numbers to improper fractions.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> $2\frac{2}{5} + 1\frac{3}{10}$ $2\frac{2}{5} = \frac{12}{5}$ $1\frac{3}{10} = \frac{13}{10}$ $\frac{12}{5} + \frac{13}{10} = \frac{24}{10} + \frac{13}{10} = \frac{37}{10}$ $\frac{37}{10} = 3\frac{7}{10}$ </div> <div style="text-align: center;"> $2\frac{1}{2} - 1\frac{1}{4}$ $2\frac{1}{2} = \frac{5}{2}$ $1\frac{1}{4} = \frac{5}{4}$ $\frac{5}{2} - \frac{5}{4} = \frac{10}{4} - \frac{5}{4} = \frac{5}{4}$ $\frac{5}{4} = 1\frac{1}{4}$ </div> </div>
Multiplying Proper Fractions	Dividing Fractions by Whole Numbers
<p>Multiplying Fractions by Fractions</p> $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$ <p>Multiplying Fractions by Whole Numbers</p> <div style="display: flex; align-items: center;"> <div style="text-align: center;">  $\frac{2}{5} \times 3$ </div> <div style="margin: 0 10px;">→</div> <div style="text-align: center;">  $3 = \frac{3}{1}$ </div> <div style="margin-left: 20px;"> $\frac{2}{5} \times \frac{3}{1} = \frac{6}{5} = 1\frac{1}{5}$ </div> </div>	<p style="text-align: center;">$\frac{2}{5} \div 2 = \frac{1}{5}$</p> <p>Multiplication and division are the inverse of one another so:</p> <p style="text-align: center;">$\div 2$ is the same as $\times \frac{1}{2}$</p> <p style="text-align: center;">$\frac{2}{5} \times \frac{1}{2} = \frac{2}{10}$</p>



Knowledge Organiser