









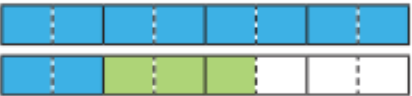
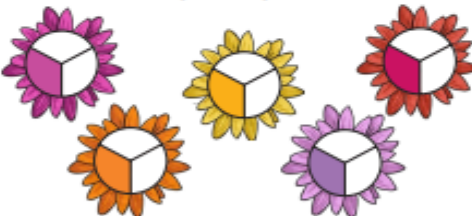
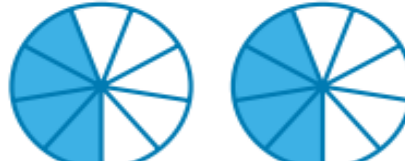



Fractions		Knowledge Organiser							
Add Fractions Where the Total is Greater Than 1		Subtract from a Mixed Number							
$\frac{1}{2} + \frac{3}{4} + \frac{5}{8} = \frac{4}{8} + \frac{6}{8} + \frac{5}{8} = \frac{15}{8} = 1\frac{7}{8}$		$1\frac{2}{3} - \frac{2}{9} = 1\frac{6}{9} - \frac{2}{9} = 1\frac{4}{9}$ <table><tr><th>starting number</th><th>find the equivalent fraction</th><th>subtract</th></tr><tr><td></td><td></td><td></td></tr></table>		starting number	find the equivalent fraction	subtract			
starting number	find the equivalent fraction	subtract							
									
Add Mixed Numbers									
$1\frac{1}{4} + \frac{3}{8} = 1\frac{2}{8} + \frac{3}{8} = 1 + \frac{5}{8} = 1\frac{5}{8}$ $1\frac{1}{4} + \frac{3}{8} = \frac{5}{4} + \frac{3}{8} = \frac{10}{8} + \frac{3}{8} = \frac{13}{8} = 1\frac{5}{8}$									
Multiply Unit Fractions by an Integer	Multiply Non-Unit Fractions by an Integer	Subtract Two Mixed Numbers							
$\frac{1}{3} \times 5 = \frac{5}{3}$ 	$2 \times \frac{4}{9} = \frac{8}{9}$ 	$2\frac{3}{4} - 1\frac{5}{8} = 1\frac{1}{8}$  $2 - 1 = 1$ $\frac{3}{4} - \frac{5}{8} = \frac{1}{8}$							
Multiply Mixed Numbers by Integers		Subtract from a Mixed Number - Breaking the Whole							
<div>Convert to an improper fraction and multiply the numerator by the integer.</div> <div>$2\frac{1}{4} \times 2 = \frac{9}{4} \times 2 = \frac{18}{4} = 4\frac{2}{4} = 4\frac{1}{2}$</div> <div>Year 5</div> <div>Use repeated addition.</div> <div>$2\frac{1}{4} \times 2 = 2\frac{1}{4} + 2\frac{1}{4} = 4\frac{2}{4} = 4\frac{1}{2}$</div>		$2\frac{1}{4} - \frac{3}{8} = 2\frac{2}{8} - \frac{3}{8} = 1\frac{10}{8} - \frac{3}{8} = 1\frac{7}{8}$ 