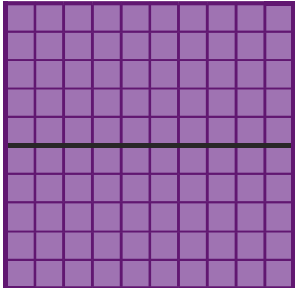
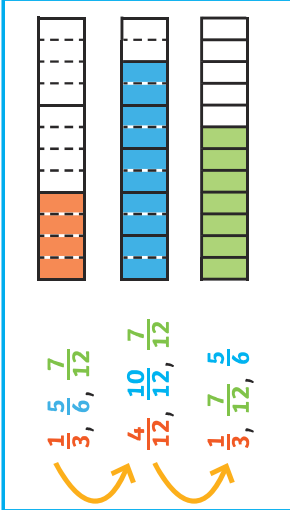
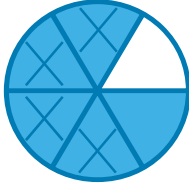


Fractions				Knowledge Organiser	
Key Vocabulary		Equivalent Fractions	Compare and Order Fractions	Compare and Order Fractions	
numerator	To find equivalent fractions, we multiply or divide the numerator and denominator by the same number.  $\frac{1}{2} = \frac{5}{10} = \frac{50}{100}$ $\times 5$$\times 10$	We can compare and order fractions by using common denominators.  $\frac{1}{3}, \frac{5}{6}, \frac{7}{12}$$\frac{4}{12}, \frac{10}{12}, \frac{7}{12}$$\frac{1}{3}, \frac{7}{12}, \frac{5}{6}$	An improper fraction has a numerator which is greater than or equal to the denominator. $5 \frac{3}{3}$	Convert a Mixed Number to an Improper Fraction Multiply the whole by the denominator to make an improper fraction. $2 \frac{5}{6} = \frac{12}{6} + \frac{5}{6} = \frac{17}{6}$ Add the fractions together.	
denominator					
unit fraction					
non-unit fraction					
whole					
equivalent	Mixed Numbers				
mixed number	Mixed numbers contain a whole number and a fraction.				whole $2 \frac{1}{4}$ fraction
improper fraction	Convert an Improper Fraction to a Mixed Number				
simplest form	$9 \div 4 = 2 \text{ r } 1$	$2 \frac{1}{4}$			
multiple	Divide the numerator by the denominator.	This shows you the whole number and the fraction.			
common denominator	Adding and Subtracting Fractions				
common numerator	To add or subtract fractions with denominators that are multiples of the same number, we must change one fraction to have the same denominator.				
 visit twinkl.com	$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ 	$\frac{4}{5} - \frac{3}{5} = \frac{1}{5}$ 	$1 \frac{1}{4} + \frac{3}{8} + \frac{2}{8} = \frac{5}{8}$ 	$\frac{5}{6} - \frac{2}{3} = \frac{5}{6} - \frac{4}{6} = \frac{1}{6}$ 	

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

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