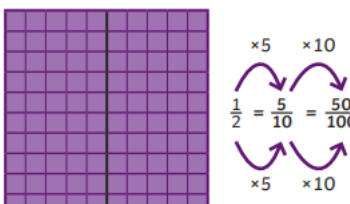


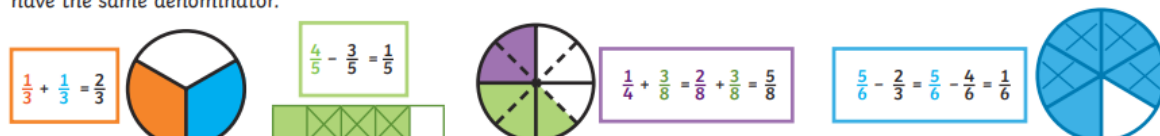






















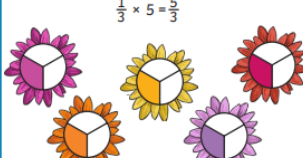
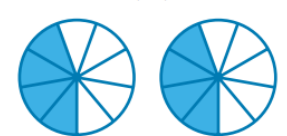

Year 5 Fractions Knowledge

$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$ equivalent	$\frac{4}{8} = \frac{2}{4} = \frac{1}{2}$ simplest form	$\frac{7}{10}$ numerator	$\frac{7}{10}$ denominator	$\frac{5}{6}$ $\frac{1}{2}$ $\frac{3}{10}$ proper fraction	$\frac{9}{4}$ $\frac{7}{2}$ $\frac{10}{7}$ improper fraction	$5 \frac{2}{7}$ mixed number	3.5 whole number
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Equivalent Fractions	Compare and Order Fractions
To find equivalent fractions, we multiply or divide the numerator and denominator by the same number. 	We can compare and order fractions by using common denominators. 
Mixed Numbers	Improper Fractions
Mixed numbers contain a whole number and a fraction. 	An improper fraction has a numerator which is greater than or equal to the denominator. $\frac{5}{3}$
Convert an Improper Fraction to a Mixed Number	Convert a Mixed Number to an Improper Fraction
$\frac{9}{4}$ $9 \div 4 = 2 \text{ r } 1$ Divide the numerator by the denominator. This shows you the whole number and the fraction. $2 \frac{1}{4}$	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.

Adding and Subtracting Fractions
To add or subtract fractions with denominators that are multiples of the same number, we must change one fraction to have the same denominator. 

Add Fractions Where the Total is Greater Than 1	Subtract from a Mixed Number									
$\frac{1}{2} + \frac{3}{4} + \frac{5}{8} = \frac{4}{8} + \frac{6}{8} + \frac{5}{8} = \frac{15}{8} = 1\frac{7}{8}$ 	$1\frac{2}{3} - \frac{2}{9} = 1\frac{6}{9} - \frac{2}{9} = 1\frac{4}{9}$									
Add Mixed Numbers										
$1\frac{1}{4} + \frac{3}{8} = 1\frac{2}{8} + \frac{3}{8} = 1 + \frac{5}{8} = 1\frac{5}{8}$ $1\frac{1}{4} + \frac{3}{8} = \frac{5}{4} + \frac{3}{8} = \frac{10}{8} + \frac{3}{8} = \frac{13}{8} = 1\frac{5}{8}$ 	<table><thead><tr><th>starting number</th><th>find the equivalent fraction</th><th>subtract</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>	starting number	find the equivalent fraction	subtract						
starting number	find the equivalent fraction	subtract								
										
										

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 Two Mixed Numbers
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. $2 \frac{1}{4} \times 2 = 2 \frac{1}{4} + 2 \frac{1}{4} = 4 \frac{2}{4} = 4 \frac{1}{2}$	$2 \frac{3}{4} - 1 \frac{5}{8} = 1 \frac{1}{8}$  $2 - 1 = 1$ $\frac{3}{4} - \frac{5}{8} = \frac{1}{8}$
Multiply Mixed Numbers by Integers	Subtract from a Mixed Number - Breaking the Whole
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. $2 \frac{1}{4} \times 2 = 2 \frac{1}{4} + 2 \frac{1}{4} = 4 \frac{2}{4} = 4 \frac{1}{2}$	$2 \frac{1}{4} - \frac{3}{8} = 2 \frac{2}{8} - \frac{3}{8} = 1 \frac{10}{8} - \frac{3}{8} = 1 \frac{7}{8}$ 