

FRACTIONS

ADDITION AND SUBTRACTION

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		<p>Add and subtract fractions with the same denominator within one whole</p> <p><u>Addition</u></p> $5/7 + 1/7 = 6/7$ <p><u>Subtraction</u></p> $\frac{3}{4} - \frac{1}{4} =$ <p>Step 1. The bottom numbers are already the same.</p> <p>Step 2. Subtract the top numbers and put the answer over the same denominator:</p> $\frac{3}{4} - \frac{1}{4} = \frac{3-1}{4} = \frac{2}{4}$	<p>Add and subtract fractions with the same denominator</p> <p>As Year 3</p> <p>Simplify answers</p> <p>e.g. $\frac{2}{4} = \frac{1}{2}$</p>	<p>Add and subtract fractions with the same denominator and multiples of the same number.</p> <p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number</p> <p>e.g. $\frac{3}{5} + \frac{4}{5} = 6/5 = 1 \frac{1}{5}$</p>	<p>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</p> <p>Make sure the denominators are the same.</p> $\frac{1}{3} + \frac{1}{6} =$ <p>So make $\frac{1}{3}$ into sixths by multiplying by 2.</p> $\frac{1}{3} \times 2 = \frac{2}{6}$ <p>Add the numerators together and put over the same denominator – e.g.</p> $\frac{2}{6} + \frac{1}{6} = \frac{2+1}{6} = \frac{3}{6} \text{ Simplify } \frac{1}{2}$

MULTIPLICATION AND DIVISION

				<p>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. E.g. $1\frac{3}{8} \times 3$</p> <p>1) convert mixed number to an improper fraction</p> <p>1 lot of 8, plus the 3 eighths = 8+3 = 11 eighths</p> $1\frac{3}{8} \times 3 = \frac{11}{8} \times \frac{3}{1} = \frac{33}{8}$ <p>Convert back to a mixed no</p> <p>= 4</p>	<p>Multiply simple pairs of proper fractions, writing the answer in its simplest form e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$.</p> <p>Multiply one-digit numbers with up to two decimal places by whole numbers.</p> <p>Divide proper fractions by whole numbers e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$.</p> <p>Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$).</p>
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