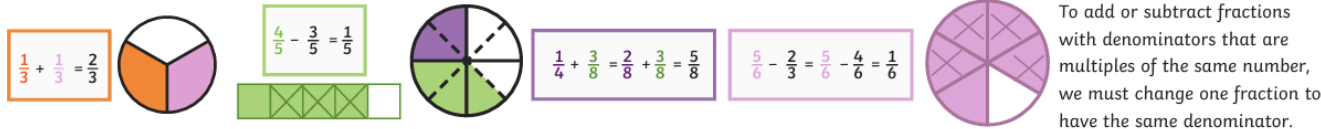


Fractions A

Key Vocabulary	Equivalent Fractions	Compare and Order Fractions
decimal equivalent	<p>To find equivalent fractions, we multiply or divide the numerator and denominator by the same number.</p>	<p>We can compare and order fractions by using common denominators.</p>
decimal place		
decimal point		
tenths		
hundredths		
thousandth		
improper fractions	<p>Mixed numbers contain a whole number and a fraction.</p>	<p>An improper fraction has a numerator which is greater than or equal to the denominator.</p> <p>$\frac{5}{3}$</p>
mixed numbers	<p>Convert an Improper Fraction to a Mixed Number</p>	<p>Convert a Mixed Number to an Improper Fraction</p>
proper fractions		
round		
common denominator		
fractional part	<p>Fractions of Quantities</p> <p>To find a fraction of a number, divide by the denominator and multiply by numerator.</p> <div><p>To find half of 30:</p><p>$\frac{1}{2}$ of 30 = 15</p></div> <div><p>To find quarters of 20:</p><p>$\frac{1}{4}$ of 20 = 5 $\frac{2}{4}$ of 20 = 10 $\frac{3}{4}$ of 20 = 15 $\frac{4}{4}$ of 20 = 20</p></div> <div><p>To find fifths of 50:</p><p>$\frac{1}{5}$ of 50 = 10 $\frac{2}{5}$ of 50 = 20 $\frac{3}{5}$ of 50 = 30 $\frac{4}{5}$ of 50 = 40 $\frac{5}{5}$ of 50 = 50</p></div> <div><p>To find sevenths of 56:</p><p>$\frac{1}{7}$ of 56 = 8 $\frac{2}{7}$ of 56 = 16 $\frac{3}{7}$ of 56 = 24 $\frac{4}{7}$ of 56 = 32 $\frac{5}{7}$ of 56 = 40 $\frac{6}{7}$ of 56 = 48 $\frac{7}{7}$ of 56 = 56</p></div>	
percentage		

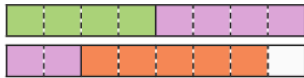
Fractions A

Adding and Subtracting Fractions



Add Fractions When the Total is Greater Than 1

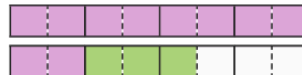
$$\frac{1}{2} + \frac{3}{4} + \frac{5}{8} = \frac{4}{8} + \frac{6}{8} + \frac{5}{8} = \frac{15}{8} = 1\frac{7}{8}$$



Add Mixed Numbers

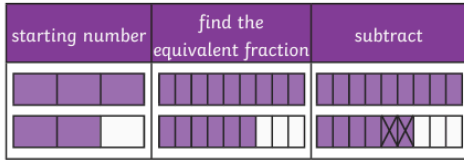
$$1\frac{1}{4} + \frac{3}{8} = 1\frac{2}{8} + \frac{3}{8} = 1\frac{5}{8} = 1\frac{5}{8}$$

$$1\frac{1}{4} + \frac{3}{8} = \frac{5}{4} + \frac{3}{8} = \frac{10}{8} + \frac{3}{8} = \frac{13}{8} = 1\frac{5}{8}$$



Subtract From a Mixed Number

$$1\frac{2}{3} - \frac{2}{9} = 1\frac{4}{9} - \frac{2}{9} = 1\frac{2}{9}$$



Subtract from a Mixed Number - Breaking the Whole

$$2\frac{1}{4} - \frac{3}{8} = 2\frac{2}{8} - \frac{3}{8} = 1\frac{10}{8} - \frac{3}{8} = 1\frac{7}{8}$$

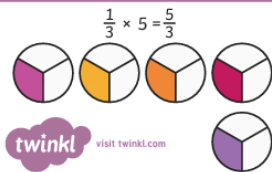


Subtract Two Mixed Numbers

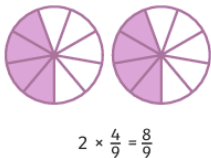
$$2\frac{3}{4} - 1\frac{5}{8} = 1\frac{6}{8} - 1\frac{5}{8} = \frac{1}{8}$$



Multiply Unit Fractions by an Integer



Multiply Non-Unit Fractions by an Integer



Multiply Mixed Numbers by Integers

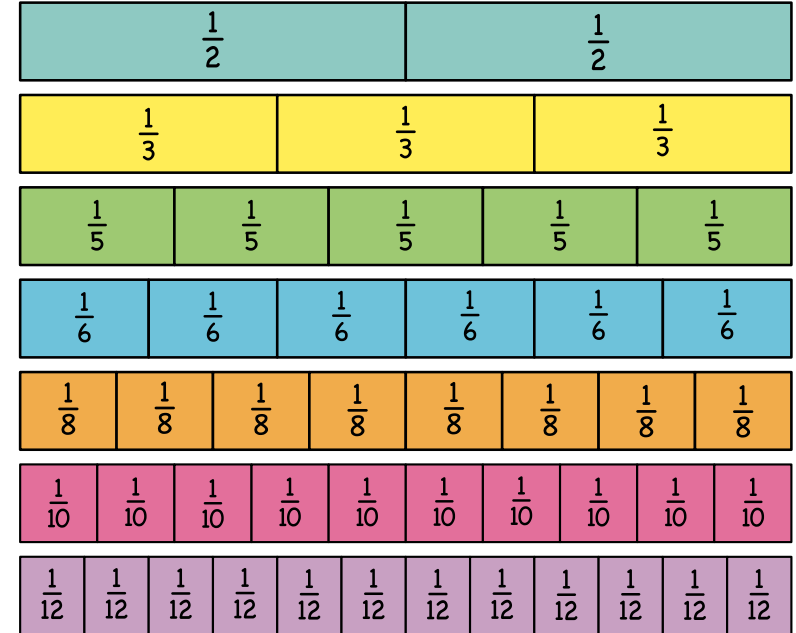
Convert to an improper fraction and multiply the numerator by the integer.

$$2\frac{1}{4} \times 2 = \frac{9}{4} \times 2 = \frac{18}{4} = 4\frac{2}{4} = 4\frac{1}{2}$$

Use repeated addition.

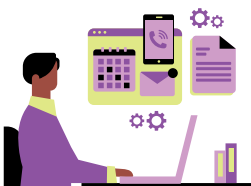
$$2\frac{1}{4} \times 2 = 2\frac{1}{4} + 2\frac{1}{4} = 4\frac{2}{4} = 4\frac{1}{2}$$

Fraction Wall



What careers might this help with?

Financial Assistant



A financial assistant helps organise and manage money-related information for a company or organisation. They make sure financial records are accurate, up to date and stored safely so they can be easily found when needed. They may record payments, check invoices, update spreadsheets and help keep track of money coming in and going out. They may also help prepare financial reports, organise receipts and support other team members with budgeting and financial information.

Market Analyst



A market analyst helps a company or organisation understand what customers want and what is happening in the market. They collect and study information about customers, products, prices and competitors to spot patterns and trends. They may use surveys, sales figures and other data to help them understand which products are popular and why. They also create reports and share their findings to help businesses make decisions about what to sell, how to advertise and how to plan for the future.

Quantity Surveyor



A quantity surveyor helps manage the costs of building and construction projects. They work out how much materials, labour and equipment are likely to cost and help make sure a project stays within its budget. They may prepare estimates, check prices, keep track of spending and make sure contractors are paid correctly. They also work with builders, architects and other professionals to help projects be completed safely, efficiently and at the right cost.