In this unit, I will:

- Simplify fractions
- Compare and order fractions
- Add and subtract fractions including mixed numbers
- Solve problems involving adding and subtracting fractions

How does this unit build on prior learning?

In this unit, children extend their understanding of fractions and mixed numbers by adding and subtracting unrelated fractions using formal written methods involving finding common denominators. Children continue to develop their reasoning and problem-solving skills while exploring efficient methods.

Before they start this unit, it is expected that children:

- Can find factors and multiples of numbers using multiplication facts
- Can find equivalent fract improper fractions and mi
- Can compare and order fractions which have the s

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- Use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- Compare and order fractions, including fractions > 1
- Add and subtract fractions with different denominators and mixe numbers, using the concept of equivalent fractions.

ons and convert between ted numbers ractions and add and subtract ame denominator.		
Adding and Subtracting Mixed Numbers		
Add or subtract the whole numbers and fractions separately.		
$2\frac{2}{5}+1\frac{3}{10}$	$2\frac{1}{2}-1\frac{1}{4}$	
2+1=3	2-1=1	
$\frac{2}{5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \frac{7}{10}$	$\frac{1}{2} - \frac{1}{4} = \frac{2}{4} - \frac{1}{4} = \frac{1}{4}$	
$3 + \frac{7}{10} = 3\frac{7}{10}$	$1 + \frac{1}{4} = 1\frac{1}{4}$	
Convert the mixed numbers to improper fractions.		
$2\frac{2}{5}+1\frac{3}{10}$	$2\frac{1}{2} - 1\frac{1}{4}$	
$2\frac{2}{5} = \frac{12}{5}$ $1\frac{3}{10} = \frac{13}{10}$	$2\frac{1}{2} = \frac{5}{2}$ $1\frac{1}{4} = \frac{5}{4}$	
$\frac{12}{5} + \frac{13}{10} = \frac{24}{10} + \frac{13}{10} = \frac{37}{10}$	$\frac{5}{2} - \frac{5}{4} = \frac{10}{4} - \frac{5}{4} = \frac{5}{4}$	
$\frac{37}{10} = 3\frac{7}{10}$	$\frac{5}{4} = 1 \frac{1}{4}$	

Simplify Fractions

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1, <u>3</u>, 9

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Key vocabulary	
numerator	The number above the line in a fraction
denominator	The number below the line in a fraction.
common	a common multiple of the
denominator	denominators of several fractions.
common factor	a whole number that divides. two or
	more other numbers exactly.
equivalent	Fractions which have the same value,
	even though they may look different.
simplify	Reduce the numerator and
	denominator in a. fraction to the
	smallest numbers possible.
highest common	The highest number that can be divided
factor (HCF)	exactly into each of two or more
	numbers.
lowest common	The highest number that can be divided
factor (LCF)	exactly into each of two or more
	numbers.
compare	To look the differences between
	numbers, quantities or values to decide
	if it is greater than, smaller than or
	equal to another quantity.
ascending order	Arranged from smallest to largest.
descending order	Arranged from largest to smallest.
improper fraction	A fraction whose numerator is larger
	than the denominator.
mixed number	A mixture of a whole number and a
	fraction.
convert	To change a value from one form
	to another.

