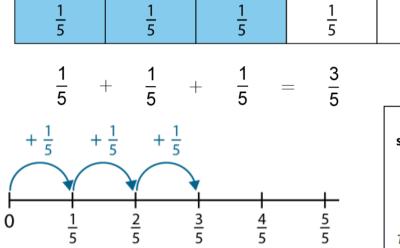
Year 3

Add and Subtract Fractions within 1

Vocabulary:

FractionNotationDividedEqualNumeratorDenominatorWholePartsFraction Bar (Vinculum)HalfThirdQuarterFifthSixthSeventhEighthNinthTenthOne-____AddSubtractNumber lineBar modelEquationExpression



We can add multiples of the unit fraction and record this as an addition equation.

The unit fraction is one-fifth. There are three onefifths in three-fifths.

Three-fifths is made up of one-fifth, add another one-fifth, and another one-fifth.

We can use our knowledge of addition and subtraction structures to add/subtract non-unit fractions, recording these as equations.

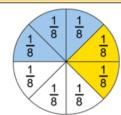
 $\frac{1}{5}$

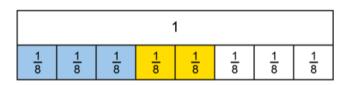
3 one-eighths plus 2 one-eighths is equal to 5 one-eighths.

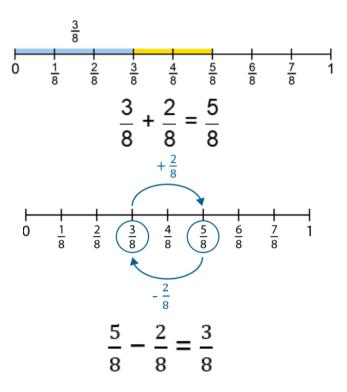
Three-eighths, plus two-eighths is equal to fiveeighths.

5 one eighths minus 2 one-eighths is equal to 3 one-eighths.

Five-eighths, minus two-eighths is equal to three-eighths.





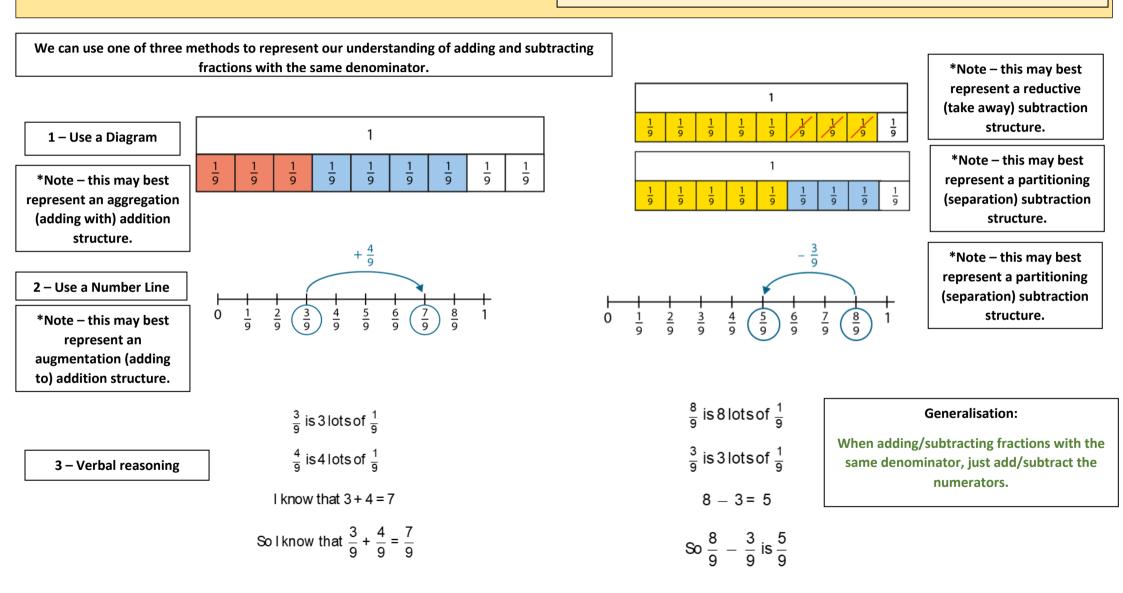


Vocabulary:

Year 3

Add and Subtract Fractions within 1

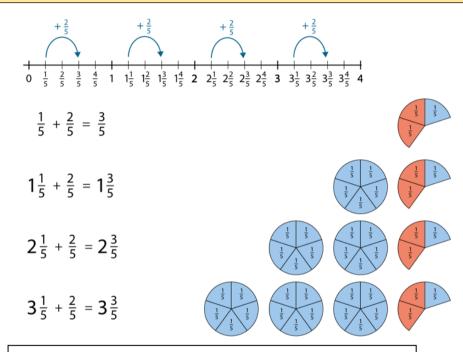
FractionNotationDividedEqualNumeratorDenominatorWholePartsFraction Bar (Vinculum)HalfThirdQuarterFifthSixthSeventhEighthNinthTenthOne-_____AddSubtract (Minus)Number lineBar modelEquationExpression



Year 4

Add and Subtract Improper Fractions and Mixed Fractions

(Same Denominator) (1)



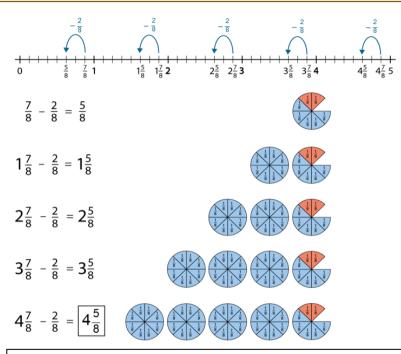
We can apply our understanding of adding fractions within one with the same denominator to adding a mixed number and fractions within one with the same denominators.

The parts are ___ and ___. The total, or <u>whole</u>, is ___.

 $\frac{1}{10} + 3\frac{2}{10} + 4 + \frac{1}{10}$

Vocabulary:

FractionNotationDividedEqualNumeratorDenominatorWholePartsFraction Bar (Vinculum)HalfThirdQuarterFifthSixthSeventhEighthNinthTenthOne-____Number linePart-Part-WholeModelUnitsPreviousNextEstimateIntervalsConvertImproper FractionsMixedNumbersAddSubtract (Minus)HereitHereitHereitHereitHereitHereit



We can apply our understanding of subtracting fractions within one with the same denominator to subtract a fraction within one from a mixed number with the same denominators.

The total, or <u>whole</u>, is ___. One part is ___. The missing part is ___.

 $\frac{1}{10}$

 $3\frac{2}{10}$

 $\frac{1}{10}$ +

When adding combined mixed numbers and fractions within one, we combine the parts and then combine the wholes.

The parts are __ and __. The total, or <u>whole</u>, is __.

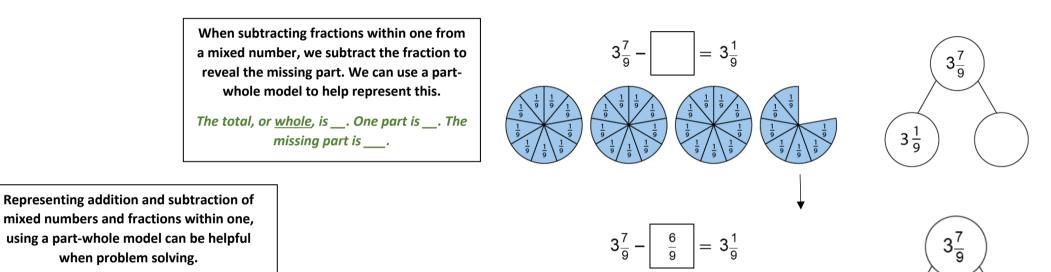
Year 4

Add and Subtract Improper Fractions and Mixed Fractions

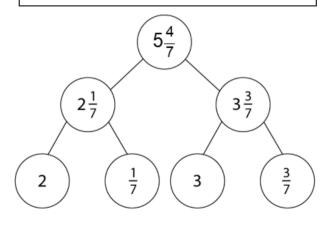
(Same Denominator) (2)

Vocabulary:

FractionNotationDividedEqualNumeratorDenominatorWholePartsFraction Bar (Vinculum)HalfThirdQuarterFifthSixthSeventhEighthNinthTenthOne-____Number linePart-Part-WholeModel UnitsPreviousNextEstimateIntervalsConvertImproper FractionsMixed NumbersAddSubtract (Minus)



The parts are __ and __. The total, or <u>whole</u>, is __.



Generalisations:

6

9

 $3\frac{1}{9}$

When adding fractions with the same denominator, just add the numerators.

When subtracting fractions with the same denominator, just subtract the numerators.

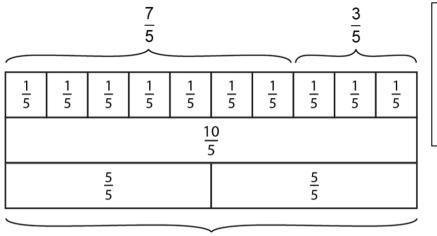
Year 4

Add and Subtract Improper Fractions and Mixed Fractions

(Same Denominator) (3)

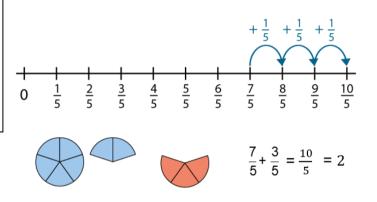


FractionNotationDividedEqualNumeratorDenominatorWholePartsFraction Bar (Vinculum)HalfThirdQuarterFifthSixthSeventhEighthNinthTenthOne-____Number linePart-Part-WholeModelUnitsPreviousNextEstimateIntervalsConvertImproper FractionsMixedNumbersAddSubtract (Minus)

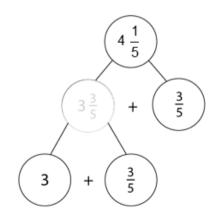


We can apply our understanding of unitising and converting between improper fractions and mixed numbers when adding improper fractions.

7 one-fifths and 3 one-fifths is equal to 10 one-fifths.

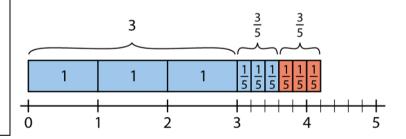


2



Partitioning a mixed number and then adding the fractional parts is helpful when adding mixed numbers with fractions within one that result in bridging over a whole.

3 one-fifths and 3 one-fifths is equal to 6 onefifths. This is equal to one whole and 1 one-fifth.

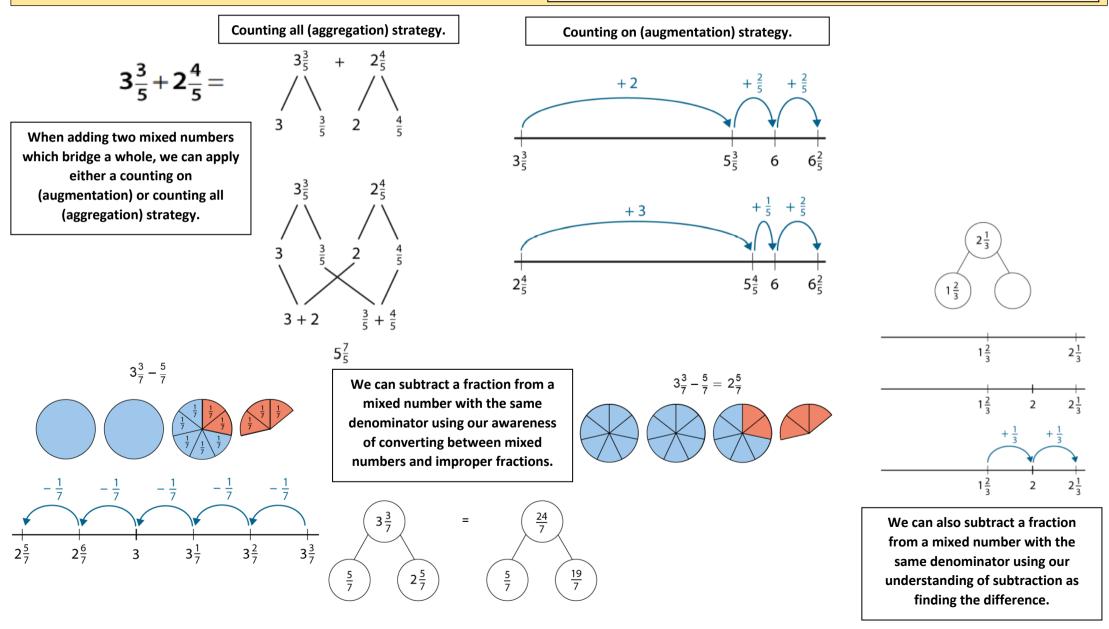


Year 4

Add and Subtract Improper Fractions and Mixed Fractions

(Same Denominator) (4)

Fraction Notation Divided Equal Numerator Denominator Whole Parts Fraction Bar (Vinculum) Half Third Quarter Fifth Sixth Seventh Eighth Ninth Tenth One-_____ Number line Part-Part-Whole Model Units Previous Next Estimate Intervals Convert Improper Fractions Mixed Numbers Add Subtract (Minus) Aggregation Augmentation Reduction Partitioning Difference



Vocabulary: