

Models for Adding Fractions

Term: Addend

Term: Sum

Like denominators

Number line

Unlike denominators

Paper and Pencil Algorithm (Rule) for Adding Fractions

Improper Fractions / Mixed Number solutions

Models for Subtracting Fractions

Term: Difference

Take Away

Missing Addend

Adding Up

Unlike denominators

Paper and Pencil Algorithm (Rule) for Subtracting Fractions

Models for Multiplying Fractions

Term: Factor	Term: Product
Whole \times Fraction; repeated addition	Fraction \times Whole

Paper and Pencil Algorithm (Rule)

Fraction \times Fraction

Paper and Pencil Algorithm (Rule)

Models for Dividing Fractions

Term: Divisor	Term: Quotient
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Repeated Subtraction (Measurement)

Paper and Pencil Algorithm (Rule): Invert and Multiply

Number Properties for Fractions	
Closure: Addition and Subtraction	Closure: Multiplication
Identity: Addition	Identity: Multiplication
Commutative: Addition	Associative: Addition
Commutative: Multiplication	Associative: Multiplication
Distributive: Multiplication over Addition	
Inverses: Addition	Inverses: Multiplication
Mental Calculations for Fractions	
Compatible Numbers	Substitutions
Equal Differences or Add-Up	Equal Quotients
Estimation ideas for Fractions	
Rounding	Compatible Numbers