

## OPERACIONES CON FRACCIONES

Suma	Resta	Multiplicación	División
$\frac{a}{b} + \frac{d}{c} =$	$\frac{a}{b} - \frac{d}{c} =$	$\left(\frac{a}{b}\right)\left(\frac{d}{c}\right) =$	$\frac{a}{b} \div \frac{c}{d} =$
$\frac{a}{b} + \frac{d}{c} =$	$\frac{a}{b} - \frac{d}{c} =$	$a\left(\frac{d}{c}\right) =$	$\frac{a}{b} \div \frac{c}{d} =$
$\frac{ac+bd}{bc} =$	$\frac{ac-db}{bc} =$	$\frac{a}{b}\left(\frac{1}{c}\right) =$	$\frac{a}{b} =$
$\frac{a+d}{b} =$	$\frac{a-d}{b} =$	$\frac{a}{b}(c) =$	$a \div \frac{b}{c} =$
$a + \frac{d}{c} =$	$a - \frac{d}{c} =$	$\frac{a}{b}\left(\frac{d}{c}\right) =$	$\frac{a}{b} \div d =$
$\frac{a}{b} + d =$	$\frac{a}{b} - d =$	$a\left(\frac{d}{c}\right) =$	$\frac{a}{b} =$
$\frac{a/b}{d/c} =$	$e \frac{a}{b} + \frac{c}{d} =$	$\frac{a}{b} =$	$\frac{a/b}{c} =$
$-\frac{a}{b} = \frac{a}{-b} =$	$+\frac{a}{b} =$	$\frac{-a}{-b} =$	$\frac{a}{b} =$
$\frac{a}{b/c} =$	$e \frac{a}{c} = \frac{ce+a}{c} =$	$\frac{a}{b} = \frac{c}{d} \Rightarrow$	$\frac{a}{b}\left(\frac{b}{a}\right) =$
$\frac{a}{b/c} =$	$\frac{a}{b/c} =$	$\frac{a}{b/c} =$	

## OPERACIONES CON FRACCIONES (SOLUCIONES)

Suma	Resta	Multiplicación	División
$\frac{a}{b} + \frac{d}{c} = \frac{ac+bd}{bc}$	$\frac{a}{b} - \frac{d}{c} = \frac{ac-db}{bc}$	$\left(\frac{a}{b}\right)\left(\frac{d}{c}\right) = \frac{ad}{bc}$	$\frac{a}{b} \div \frac{c}{d} = \frac{ad}{bc}$
$\frac{a}{b} + \frac{d}{c} = \frac{ac}{bc} + \frac{db}{bc}$	$\frac{a}{b} - \frac{d}{c} = \frac{ac}{bc} - \frac{bd}{bc}$	$a\left(\frac{d}{c}\right) = \frac{ad}{c}$	$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b}\left(\frac{d}{c}\right)$
$\frac{ac+bd}{bc} = \frac{ac}{bc} + \frac{bd}{bc}$	$\frac{ac-db}{bc} = \frac{ac}{bc} - \frac{bd}{bc}$	$\frac{a}{b}\left(\frac{1}{c}\right) = \frac{a}{bc}$	$\frac{a}{b} = a \div b$
$\frac{a+d}{b} = \frac{a}{b} + \frac{d}{b}$	$\frac{a-d}{b} = \frac{a}{b} - \frac{d}{b}$	$\frac{a}{b}(c) = \frac{ac}{b}$	$a \div \frac{b}{c} = \frac{ac}{b}$
$a + \frac{d}{c} = \frac{ac+d}{c}$	$a - \frac{d}{c} = \frac{ac-d}{c}$	$\frac{a}{b}\left(\frac{d}{c}\right) = \frac{a}{c}\left(\frac{d}{b}\right)$	$\frac{a}{b} \div d = \frac{a}{bd}$
$\frac{a}{b} + d = \frac{a+bd}{b}$	$\frac{a}{b} - d = \frac{a-bd}{b}$	$a\left(\frac{d}{c}\right) = \frac{a}{c}(d)$	$\frac{a}{b} = a/b$
$\frac{a/b}{d} = \frac{ac}{db}$ $\frac{a}{c}$	$e\frac{a}{b} + \frac{c}{d} = \frac{d(be+a)+dc}{db}$	$\frac{a}{b} = a \div b$	$\frac{a/b}{c} = \frac{a}{bc}$
$-\frac{a}{b} = \frac{a}{-b} = \frac{-a}{b}$	$+\frac{a}{b} = \frac{-a}{-b}$	$\frac{-a}{-b} = \frac{a}{b}$	$\frac{a}{b} = \frac{na}{nb}$
$\frac{a}{b} \div \frac{c}{d} = \frac{ad}{bc}$	$e\frac{a}{c} = \frac{ce+a}{c} = e + \frac{a}{c}$	$\frac{a}{b} = \frac{c}{d} \Rightarrow ad = cb$	$\frac{a}{b}\left(\frac{b}{a}\right) = 1$
$\frac{a}{b} = \frac{ad}{bc}$ $\frac{c}{d}$	$\frac{a}{b} = \frac{a}{c}$ $\frac{c}{b}$	$\frac{a}{b} = \frac{c}{b}$ $\frac{a}{c}$	