Fraction Subtraction

Same Denominator

Fractions with the same denominator can be subtracted by subtracting the numerators.

STEP ONE: Subtract the numerators
STEP TWO: Write the new numerator
STEP THREE: Keep the same denominator
STEP FOUR: Simplify answer, if needed.

Subtract to find new numerator

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

$$\frac{4}{5} + \frac{2}{5} = \frac{2}{5}$$

Different Denominator

Fractions with different denominators can be subtracted using these two steps.

You can either convert the fractions so that they have the same denominator, OR:
STEP ONE: Multiply the first numerator across with the second denominator
STEP TWO: Multiply the second numerator across with the first denominator
STEP THREE: Multiply both denominators
STEP FOUR: Divide using this formula:

$$\frac{Step\ 1 - Step\ 2}{Step\ 3}$$

STEP FIVE: Simplify answer, if needed.

$$\frac{3}{4} \times \frac{2}{8} = \frac{(3 \times 8) - (2 \times 4)}{(4 \times 8)} = \frac{16}{32} = \frac{1}{2}$$

Instructions: Subtract the fractions below.

1	$\frac{7}{8} - \frac{3}{8} =$	2 $\frac{11}{30} - \frac{8}{30} =$
3	$\frac{8}{12} - \frac{5}{12} =$	4 $\frac{15}{42} - \frac{5}{42} =$

5	$\frac{4}{5}$	$-$	$\frac{1}{3}$	6	$\frac{5}{7}$	$-$	$\frac{2}{3}$
7	$\frac{7}{12}$	$-$	$\frac{1}{5}$	8	$\frac{3}{4}$	$-$	$\frac{1}{10}$
9	$\frac{5}{6}$	$-$	$\frac{1}{4}$	10	$\frac{10}{11}$	$-$	$\frac{5}{6}$
11	$\frac{8}{11}$	$-$	$\frac{2}{5}$	12	$\frac{6}{10}$	$-$	$\frac{5}{12}$

13	$\dfrac{3}{7}$	$-$	$\dfrac{1}{8}$	14	$\dfrac{6}{7}$	$-$	$\dfrac{4}{5}$
15	$\dfrac{5}{12}$	$-$	$\dfrac{3}{10}$	16	$\dfrac{8}{9}$	$-$	$\dfrac{4}{5}$
17	$\dfrac{7}{11}$	$-$	$\dfrac{1}{3}$	18	$\dfrac{11}{12}$	$-$	$\dfrac{4}{7}$
19	$\dfrac{3}{8}$	$-$	$\dfrac{3}{12}$	20	$\dfrac{9}{11}$	$-$	$\dfrac{7}{12}$

Fraction Subtraction

Same Denominator	Different Denominator
Fractions with the same denominator can be subtracted by subtracting the numerators.	Fractions with different denominators can be subtracted using these two steps.

Same Denominator

STEP ONE: Subtract the numerators
STEP TWO: Write the new numerator
STEP THREE: Keep the same denominator
STEP FOUR: Simplify answer, if needed.

Subtract to find new numerator

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

$$\frac{4}{5} + \frac{2}{5} = \frac{2}{5}$$

Different Denominator

You can either convert the fractions so that they have the same denominator, OR:
STEP ONE: Multiply the first numerator across with the second denominator
STEP TWO: Multiply the second numerator across with the first denominator
STEP THREE: Multiply both denominators
STEP FOUR: Divide using this formula:

$$\frac{Step\ 1 - Step\ 2}{Step\ 3}$$

STEP FIVE: Simplify answer, if needed.

$$\frac{3}{4} \times \frac{2}{8} = \frac{(3 \times 8) - (2 \times 4)}{(4 \times 8)} = \frac{16}{32} = \frac{1}{2}$$

Instructions: Subtract the fractions below.

1	$\frac{13}{15} - \frac{8}{15} =$	2	$\frac{19}{24} - \frac{15}{24} =$
3	$\frac{22}{32} - \frac{12}{32} =$	4	$\frac{17}{18} - \frac{9}{18} =$

5	$\frac{4}{5}$ – $\frac{5}{12}$	6	$\frac{11}{12}$ – $\frac{3}{4}$
7	$\frac{2}{7}$ – $\frac{1}{12}$	8	$\frac{8}{11}$ – $\frac{3}{10}$
9	$\frac{5}{6}$ – $\frac{2}{5}$	10	$\frac{10}{11}$ – $\frac{2}{3}$
11	$\frac{11}{12}$ – $\frac{7}{8}$	12	$\frac{7}{8}$ – $\frac{1}{9}$

13	$\dfrac{1}{4}$ – $\dfrac{2}{11}$	14	$\dfrac{9}{10}$ – $\dfrac{4}{11}$
15	$\dfrac{4}{5}$ – $\dfrac{3}{8}$	16	$\dfrac{2}{3}$ – $\dfrac{4}{12}$
17	$\dfrac{6}{11}$ – $\dfrac{2}{9}$	18	$\dfrac{6}{7}$ – $\dfrac{2}{3}$
19	$\dfrac{11}{12}$ – $\dfrac{3}{4}$	20	$\dfrac{7}{9}$ – $\dfrac{5}{8}$