

Fraction Addition

Same Denominator

Fractions with the same denominator can be added easily by adding the numerators.

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

Add numerators to find new numerator

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

$$\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$$

Different Denominator

Fractions with different denominators can be added 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:

Step 1 + Step 2
Step 3

- STEP FIVE:** Simplify answer, if needed.

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

Instructions: Add the fractions below.

1	$\frac{2}{16} + \frac{4}{16} =$	2	$\frac{7}{20} + \frac{7}{20} =$
3	$\frac{9}{24} + \frac{6}{24} =$	4	$\frac{4}{18} + \frac{6}{18} =$



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



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

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Same Denominator

Fractions with the same denominator can be added easily by adding the numerators.

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

Add numerators to find new numerator

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

$$\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$$

Different Denominator

Fractions with different denominators can be added 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:

Step 1 + Step 2
Step 3

- STEP FIVE:** Simplify answer, if needed.

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

Instructions: Add the fractions below.

1	$\frac{5}{9} + \frac{1}{9} =$	2	$\frac{11}{24} + \frac{7}{24} =$
3	$\frac{3}{18} + \frac{9}{18} =$	4	$\frac{8}{30} + \frac{8}{30} =$



5	$\frac{1}{3} + \frac{2}{11}$	6	$\frac{1}{7} + \frac{2}{9}$
7	$\frac{3}{8} + \frac{1}{4}$	8	$\frac{5}{11} + \frac{1}{5}$
9	$\frac{3}{5} + \frac{1}{10}$	10	$\frac{4}{7} + \frac{2}{9}$
11	$\frac{3}{20} + \frac{1}{3}$	12	$\frac{7}{8} + \frac{1}{10}$



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