

Mixed Fraction Addition & Subtraction

Adding & Subtracting Mixed Fractions

The best way to add and subtract mixed fractions is to start by converting each fraction to an improper fraction.

EXAMPLE: What is $2\frac{1}{2} + 4\frac{1}{3}$?

(1) Convert the mixed fractions to improper fractions.

$$2\frac{1}{2} = \frac{5}{2}$$
 $4\frac{1}{3} = \frac{13}{3}$

(3) Convert the improper fractions so that they have the same denominator. This new denominator is the lowest common multiple.

LCM of 2 and 3 is 6

 $\frac{5}{2} \times \frac{3}{3} = \frac{15}{6}$ $\frac{13}{3} \times \frac{2}{2} = \frac{26}{6}$

(4) Now, you can add or subtract the converted fractions

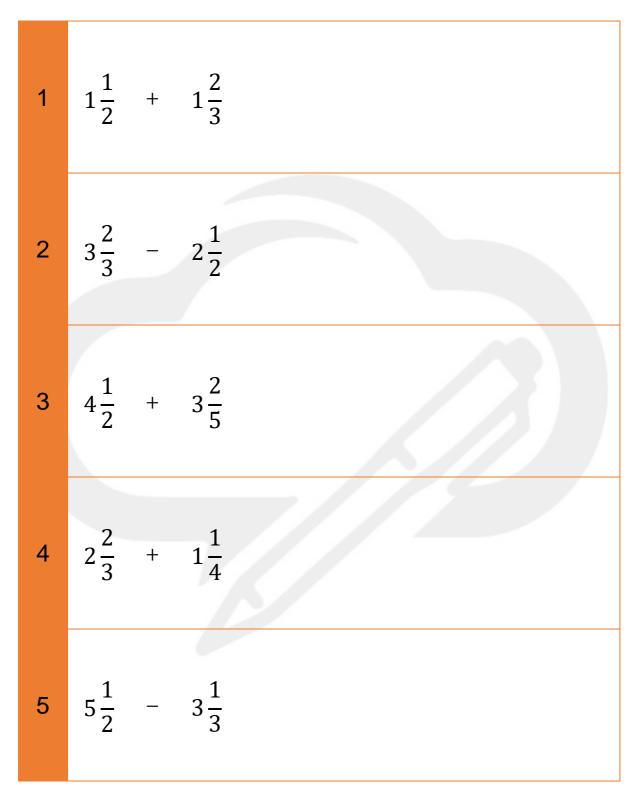
$$\frac{15}{6} + \frac{26}{6} = \frac{41}{6}$$

(5) Convert your answer back to a mixed fraction.

$$\frac{41}{6} = 6\frac{5}{6}$$



Instructions: Answer the mixed fraction questions below.





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| 6 | $2\frac{1}{4}$ | ÷ | $1\frac{3}{5}$ | |
|----|-----------------|---|----------------|--|
| 7 | $6\frac{3}{4}$ | - | $3\frac{1}{3}$ | |
| 8 | $4\frac{1}{5}$ | + | $3\frac{1}{6}$ | |
| 9 | $5\frac{1}{3}$ | + | $1\frac{2}{5}$ | |
| 10 | $13\frac{1}{3}$ | _ | $4\frac{1}{5}$ | |



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(4) Now, you can add or subtract the converted fractions

$$\frac{15}{6} + \frac{26}{6} = \frac{41}{6}$$

(5) Convert your answer back to a mixed fraction.

$$\frac{41}{6} = 6\frac{5}{6}$$



Instructions: Answer the mixed fraction questions below.

1
$$9\frac{1}{2} - 2\frac{1}{3}$$

2 $6\frac{1}{3} + 5\frac{1}{4}$
3 $5\frac{3}{5} + 2\frac{1}{2}$
4 $8\frac{1}{3} - 2\frac{1}{4}$
5 $3\frac{4}{5} + 9\frac{1}{2}$



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| 6 | $4\frac{2}{3}$ | + | $4\frac{1}{5}$ | |
|----|-----------------|---|----------------|--|
| 7 | $9\frac{2}{3}$ | - | $6\frac{1}{8}$ | |
| 8 | $12\frac{5}{6}$ | _ | $8\frac{3}{4}$ | |
| 9 | $18\frac{7}{8}$ | + | $7\frac{1}{3}$ | |
| 10 | $17\frac{3}{7}$ | _ | $3\frac{1}{6}$ | |