

Mixed Number Addition and Subtraction

Ex1
Addition $2\frac{2}{5} + 3\frac{1}{4}$
 $= 5\frac{8+5}{20}$
 $= 5\frac{13}{20}$

Ex2 $3\frac{5}{7} + 4\frac{1}{2}$
 $= 7\frac{10+7}{14}$
 $= 7\frac{17}{14}$
 $= 8\frac{3}{14}$

1. Add whole numbers
 2. Add fractions
 3. Take out an extra whole number if fraction is improper
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Subtraction

Ex3 $7\frac{4}{5} - 1\frac{1}{4}$
 $= 6\frac{16-5}{20}$
 $= 6\frac{11}{20}$

Ex4 $8\frac{1}{2} - 3\frac{4}{5}$
 $= 4\frac{5-8}{10}$
 $= 4\frac{7}{10}$

Ex5 $8\frac{1}{3} - 1\frac{3}{4}$
 $= 6\frac{4-9}{12}$
 $= 6\frac{7}{12}$

1. Subtract whole numbers
 2. Subtract fractions
 3. If fraction would be negative then borrow a whole number
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Exercise

$$1) 3\frac{1}{4} + 1\frac{1}{3}$$

$$6) 8\frac{3}{4} - 1\frac{1}{3}$$

$$2) 6\frac{4}{5} + 2\frac{2}{3}$$

$$7) 2\frac{1}{2} - 1\frac{4}{7}$$

$$3) 7\frac{1}{2} + 2\frac{4}{5}$$

$$8) 6\frac{2}{7} - 1\frac{1}{2}$$

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

$$9) 7\frac{7}{8} - 1\frac{2}{3}$$

$$5) \frac{5}{6} + 1\frac{1}{7}$$

$$10) 5 - 1\frac{2}{3}$$

Solutions

$$1) 3\frac{1}{4} + 1\frac{1}{3} = 4\frac{3+4}{12} = 4\frac{7}{12}$$

$$2) 6\frac{4}{5} + 2\frac{2}{3} = 8\frac{12+10}{15} = 8\frac{22}{15} = 9\frac{7}{15}$$

$$3) 7\frac{1}{2} + 2\frac{4}{5} = 9\frac{5+8}{10} = 9\frac{13}{10} = 10\frac{3}{10}$$

$$4) 1\frac{3}{4} + \frac{1}{2} = 1\frac{3+2}{4} = 1\frac{5}{4} = 2\frac{1}{4}$$

$$5) \frac{5}{6} + 1\frac{1}{7} = 1\frac{35+6}{42} = 1\frac{41}{42}$$

$$6) 8\frac{3}{4} - 1\frac{1}{3} = 7\frac{9-4}{12} = 7\frac{5}{12}$$

$$7) 2\frac{1}{2} - 1\frac{4}{7} = 0\frac{14+7-8}{14} = \frac{13}{14}$$

$$8) 6\frac{2}{7} - 1\frac{1}{2} = 4\frac{14+4-7}{14} = 4\frac{11}{14}$$

$$9) 7\frac{7}{8} - 1\frac{2}{3} = 6\frac{21-16}{24} = 6\frac{5}{24}$$

$$10) 5 - 1\frac{2}{3} = 3\frac{3+0-2}{3} = 3\frac{1}{3}$$

Challenge

$$\begin{aligned} & 2\frac{1}{3} + 5\frac{3}{4} - 1\frac{1}{5} \\ &= 6\frac{20+45-12}{60} \\ &= 6\frac{53}{60} \end{aligned}$$