Add Mixed Numbers

To add mixed numbers.

1) Add these mixed fractions by adding the whole numbers first. An example is provided.

$$1\frac{1}{4} + 2\frac{1}{8}$$

$$1 + 2 = 3 \qquad \frac{1}{4} + \frac{1}{8} = \frac{2}{8} + \frac{1}{8} = \frac{3}{8}$$

$$3 + \frac{3}{8} = 3\frac{3}{8}$$

a) $2\frac{1}{5} + 3\frac{3}{5} =$	b) $4\frac{1}{5} + 1\frac{3}{10} =$

2) Add these mixed fractions by changing to an improper fraction first. An example is provided.

$$2\frac{1}{3} + 3\frac{3}{6}$$

$$\frac{7}{3} + \frac{21}{6} = \frac{14}{6} + \frac{21}{6} = \frac{35}{6}$$

$$\frac{35}{6} = 5\frac{5}{6}$$

a) $3\frac{2}{6} + 2\frac{1}{6} =$	b) $2\frac{1}{8} + 1\frac{1}{4} =$

3) In these fractions, the fraction part makes a total greater than 1. An example is given.

$$2\frac{4}{5} + 3\frac{7}{10}$$

$$\frac{14}{5} + \frac{37}{10} = \frac{28}{10} + \frac{37}{10} = \frac{65}{10}$$

$$\frac{65}{10} = 6\frac{5}{10}$$

a) $3\frac{7}{9} + 1\frac{5}{9} =$ ☐	b) $4\frac{2}{3} + 1\frac{5}{6} =$ ☐

4) Choose the best method to add these fractions.

a) $2\frac{3}{5} + 3\frac{1}{5} =$ ☐	b) $1\frac{4}{5} + 2\frac{9}{10} =$ ☐

Add Mixed Numbers **Answers**

1)

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

b) $4\frac{1}{5} + 1\frac{3}{10} = 5\frac{5}{10}$ or $5\frac{1}{2}$

2)

a) $3\frac{2}{6} + 2\frac{1}{6} = 5\frac{3}{6}$ or $5\frac{1}{2}$

b) $2\frac{1}{8} + 1\frac{1}{4} = 3\frac{3}{8}$

3)

a) $3\frac{7}{9} + 1\frac{5}{9} = 5\frac{3}{9}$ or $5\frac{1}{3}$

b) $4\frac{2}{3} + 1\frac{5}{6} = 6\frac{3}{6}$ or $6\frac{1}{2}$

4)

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

b) $1\frac{4}{5} + 2\frac{9}{10} = 4\frac{7}{10}$

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1) Add these mixed fractions by adding the whole numbers first. An example is provided.

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$$1 + 2 = 3 \qquad \frac{1}{4} + \frac{1}{8} = \frac{2}{8} + \frac{1}{8} = \frac{3}{8}$$

$$3 + \frac{3}{8} = 3\frac{3}{8}$$

a) $2\frac{1}{5} + 2\frac{3}{10} =$	b) $4\frac{1}{3} + 1\frac{3}{12} =$

2) Add these mixed fractions by changing to an improper fraction first. An example is provided.

$$2\frac{2}{3} + 3\frac{3}{6}$$

$$\frac{8}{3} + \frac{21}{6} = \frac{16}{6} + \frac{21}{6} = \frac{37}{6}$$

$$\frac{37}{6} = 6\frac{1}{6}$$

a) $1\frac{1}{3} + 2\frac{3}{6} =$	b) $2\frac{1}{2} + 1\frac{4}{10} =$

3) In these fractions, the fraction part makes a total greater than 1. An example is given.

$$2\frac{4}{5} + 3\frac{7}{10}$$

$$\frac{14}{5} + \frac{37}{10} = \frac{28}{10} + \frac{37}{10} = \frac{65}{10}$$

$$\frac{65}{10} = 6\frac{5}{10}$$

a) $4\frac{8}{9} + 1\frac{6}{18} =$ ☐	b) $3\frac{6}{7} + 2\frac{7}{14} =$ ☐

4) Choose the best method to add these fractions.

a) $2\frac{3}{8} + 3\frac{1}{2} =$ ☐	b) $2\frac{3}{5} + 4\frac{10}{15} =$ ☐

4) Explain why you chose the methods you did in question 4.

Add Mixed Numbers **Answers**

1)

a) $2\frac{1}{5} + 2\frac{3}{10} = 4\frac{5}{10}$

b) $4\frac{1}{3} + 1\frac{3}{12} = 5\frac{7}{12}$

2)

a) $1\frac{1}{3} + 2\frac{3}{6} = 3\frac{5}{6}$

b) $2\frac{1}{2} + 1\frac{4}{10} = 3\frac{9}{10}$

3)

a) $4\frac{8}{9} + 1\frac{6}{18} = 6\frac{4}{18}$ or $6\frac{2}{9}$

b) $3\frac{6}{7} + 2\frac{7}{14} = 6\frac{5}{14}$

4)

a) $2\frac{3}{8} + 3\frac{1}{2} = 5\frac{7}{8}$

b) $2\frac{3}{5} + 4\frac{10}{15} = 7\frac{4}{15}$

5) Explanation of chosen methods.