

Mixed Numbers: Unlike Denominators

Name: _____

The denominators are different. Rename both fractions with a common denominator, then add or subtract. Write the answer in the box. Simplify if you can.

Example $1\frac{1}{2} + 2\frac{1}{5} = 1\frac{5}{10} + 2\frac{2}{10} = 3\frac{7}{10}$ Halves and fifths can both be renamed as tenths.

1.

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

2.

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

3.

$$4\frac{3}{4} - 2\frac{1}{2} = \boxed{}$$

4.

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

5.

$$5\frac{5}{6} - 1\frac{1}{3} = \boxed{}$$

6.

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

7.

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

8.

$$4\frac{1}{4} - 1\frac{1}{2} = \boxed{}$$

9.

$$6\frac{1}{3} - 2\frac{3}{4} = \boxed{}$$

10.

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

Mixed Numbers: Unlike Denominators (Answer Key)

The denominators are different. Rename both fractions with a common denominator, then add or subtract. Write the answer in the box. Simplify if you can.

Example $1\frac{1}{2} + 2\frac{1}{5} = 1\frac{5}{10} + 2\frac{2}{10} = 3\frac{7}{10}$ Halves and fifths can both be renamed as tenths.

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

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

2. $3\frac{2}{3} + 1\frac{1}{6} = \boxed{4\frac{5}{6}}$

$$= 3\frac{4}{6} + 1\frac{1}{6} = 4\frac{5}{6}$$

3. $4\frac{3}{4} - 2\frac{1}{2} = \boxed{2\frac{1}{4}}$

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

4. $1\frac{1}{2} + 2\frac{1}{3} = \boxed{3\frac{5}{6}}$

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

5. $5\frac{5}{6} - 1\frac{1}{3} = \boxed{4\frac{1}{2}}$

$$= 5\frac{5}{6} - 1\frac{2}{6} = 4\frac{3}{6} = 4\frac{1}{2}$$

6. $2\frac{3}{4} + 1\frac{1}{2} = \boxed{4\frac{1}{4}}$

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

7. $3\frac{1}{2} + 2\frac{2}{3} = \boxed{6\frac{1}{6}}$

$$= 3\frac{3}{6} + 2\frac{4}{6} = 5\frac{7}{6} = 6\frac{1}{6}$$

8. $4\frac{1}{4} - 1\frac{1}{2} = \boxed{2\frac{3}{4}}$

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

9. $6\frac{1}{3} - 2\frac{3}{4} = \boxed{3\frac{7}{12}}$

$$= 6\frac{4}{12} - 2\frac{9}{12} = 5\frac{16}{12} - 2\frac{9}{12} = 3\frac{7}{12}$$

10. $2\frac{4}{5} + 3\frac{1}{2} = \boxed{6\frac{3}{10}}$

$$= 2\frac{8}{10} + 3\frac{5}{10} = 5\frac{13}{10} = 6\frac{3}{10}$$