

Reteaching 6-4 Adding Mixed Numbers

Some mixed numbers can be added mentally.

Add: $5\frac{1}{4} + 2\frac{1}{8}$

Step 1

Add the whole numbers.

$$5 + 2 = 7$$

Step 2

Add the fractions.

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

Step 3

Combine the two parts.

$$7 + \frac{3}{8} = 7\frac{3}{8}$$

$$5\frac{1}{4} + 2\frac{1}{8} = 7\frac{3}{8}$$

Otherwise, you can follow these steps.

Add: $4\frac{4}{5} + 2\frac{9}{10}$

Step 1

Write with a common denominator.

$$4\frac{4}{5} + 2\frac{9}{10} = 4\frac{8}{10} + 2\frac{9}{10}$$

Step 2

Add the whole numbers.
Add the fractions.

$$= 6\frac{17}{10}$$

Step 3

Simplify.

$$= 7\frac{7}{10}$$

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

Find each sum. Write it in simplest form.

1. $4\frac{4}{7} + 1\frac{1}{7}$ _____

2. $1\frac{1}{3} + 3\frac{1}{3}$ _____

3. $2\frac{1}{2} + 4$ _____

4. $8\frac{2}{5} + 4\frac{1}{10}$ _____

5. $7\frac{3}{4} + 2\frac{1}{8}$ _____

6. $2\frac{7}{10} + 3\frac{1}{5}$ _____

7. $7\frac{2}{9} + 1\frac{4}{9}$ _____

8. $8\frac{3}{14} + 2\frac{1}{7}$ _____

9. $9\frac{3}{8} + 2\frac{1}{2}$ _____

10. $1\frac{3}{4} + 4\frac{7}{8}$ _____

11. $7\frac{2}{3} + 8\frac{5}{6}$ _____

12. $1\frac{2}{5} + 9\frac{2}{3}$ _____

13. $6\frac{3}{4} + 8\frac{4}{5}$ _____

14. $3\frac{2}{3} + 5\frac{5}{6}$ _____

15. $4\frac{2}{5} + 6\frac{7}{10}$ _____

16. $6 + 3\frac{2}{5}$ _____

17. $9\frac{1}{6} + 1\frac{1}{3}$ _____

18. $8\frac{1}{16} + 4\frac{5}{8}$ _____

Reteaching

Reteaching 6-5 Subtracting Mixed Numbers

Some mixed numbers can be subtracted mentally.

Subtract: $5\frac{2}{3} - 2\frac{1}{6}$

Step 1

Subtract the whole numbers.

$$5 - 2 = 3$$

Step 2

Subtract the fractions.

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

Step 3

Combine the two parts.

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

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

Sometimes you must rename the first fraction before subtracting.

Subtract: $6\frac{1}{2} - 2\frac{3}{4}$

Cannot subtract
 $\frac{1}{2} - \frac{3}{4}$

Step 1

Write with a common denominator.

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

Step 2

Rename $6\frac{2}{4}$.

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

Step 3

Subtract the whole numbers.

$$= 3\frac{3}{4}$$

Subtract the fractions.

Simplify, if necessary.

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

Find each difference. Write it in simplest form.

1. $7\frac{7}{10} - 2\frac{3}{10}$ _____

2. $3\frac{3}{4} - 1\frac{1}{2}$ _____

3. $6\frac{2}{3} - 2\frac{1}{6}$ _____

4. $9\frac{7}{8} - 7\frac{3}{4}$ _____

5. $8\frac{1}{2} - 3\frac{1}{4}$ _____

6. $14\frac{1}{3} - 8\frac{1}{4}$ _____

7. $12\frac{1}{3} - 9\frac{2}{3}$ _____

8. $6\frac{5}{8} - 2\frac{3}{4}$ _____

9. $7\frac{5}{7} - 4\frac{13}{14}$ _____

10. $10\frac{2}{3} - 7\frac{5}{6}$ _____

11. $5\frac{7}{16} - 1\frac{1}{2}$ _____

12. $8\frac{2}{5} - 3\frac{2}{3}$ _____

13. $6\frac{1}{8} - 3\frac{1}{16}$ _____

14. $9\frac{5}{12} - 5\frac{3}{4}$ _____

15. $12\frac{3}{4} - 6\frac{1}{8}$ _____

16. $7\frac{2}{5} - 2\frac{1}{4}$ _____

17. $15\frac{5}{12} - 8\frac{1}{3}$ _____

18. $4\frac{1}{10} - 2\frac{4}{5}$ _____