

Adding Fractions with Like Denominators

SKILLS

Add the fractions. Write each answer in simplest form.

1. $\frac{1}{8} + \frac{5}{8} =$

2. $\frac{3}{7} + \frac{2}{7} =$

3. $\frac{7}{10} + \frac{2}{10} =$

4. $\frac{2}{5} + \frac{2}{5} =$

5. $\frac{1}{9} + \frac{4}{9} =$

6. $\frac{5}{11} + \frac{3}{11} =$

7. $\frac{4}{13} + \frac{5}{13} =$

8. $\frac{1}{3} + \frac{1}{3} =$

9. $\frac{3}{8} + \frac{4}{8} =$

10. $\frac{7}{11} + \frac{2}{11} =$

11. $\frac{3}{10} + \frac{1}{10} =$

12. $\frac{7}{12} + \frac{1}{12} =$

13. $\frac{2}{4} + \frac{1}{4} =$

14. $\frac{1}{6} + \frac{4}{6} =$

15. $\frac{5}{8} + \frac{2}{8} =$

16. $\frac{2}{9} + \frac{4}{9} =$

17. $\frac{3}{8} + \frac{1}{8} =$

18. $\frac{3}{5} + \frac{1}{5} =$

19. $\frac{4}{9} + \frac{4}{9} =$

20. $\frac{3}{10} + \frac{2}{10} =$

21. $\frac{1}{6} + \frac{3}{6} =$

22. $\frac{3}{7} + \frac{3}{7} =$

23. $\frac{5}{12} + \frac{4}{12} =$

24. $\frac{3}{13} + \frac{8}{13} =$

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

To add three fractions, add the numerators together.

$$2 + 2 + 1 = 5, \text{ so the sum is } \frac{5}{6}.$$

25. $\frac{2}{10} + \frac{3}{10} + \frac{1}{10} =$ _____

26. $\frac{5}{12} + \frac{1}{12} + \frac{3}{12} =$ _____

27. $\frac{2}{15} + \frac{4}{15} + \frac{7}{15} =$ _____

28. $\frac{3}{14} + \frac{2}{14} + \frac{7}{14} =$ _____

Adding Fractions with Unlike Denominators

SKILLS

Rewrite fractions using same denominator.
Write numerators as a sum over the same denominator.
Find the sum.
Simplify.

Add the fractions.

1. $\frac{1}{3} + \frac{1}{6} =$

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

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

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

5. $\frac{5}{12} + \frac{1}{6} =$

6. $\frac{1}{2} + \frac{3}{8} =$

7. $\frac{4}{9} + \frac{1}{3} =$

8. $\frac{5}{6} + \frac{1}{12} =$

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

10. $\frac{3}{5} + \frac{2}{15} =$

11. $\frac{1}{10} + \frac{2}{5} =$

12. $\frac{3}{10} + \frac{1}{5} =$

Find each sum.

13.
$$\begin{array}{r} \frac{2}{5} \\ + \frac{3}{10} \\ \hline \end{array}$$

14.
$$\begin{array}{r} \frac{2}{3} \\ + \frac{1}{6} \\ \hline \end{array}$$

15.
$$\begin{array}{r} \frac{5}{8} \\ + \frac{1}{4} \\ \hline \end{array}$$

16.
$$\begin{array}{r} \frac{2}{3} \\ + \frac{1}{12} \\ \hline \end{array}$$

17.
$$\begin{array}{r} \frac{2}{3} \\ + \frac{1}{9} \\ \hline \end{array}$$

18.
$$\begin{array}{r} \frac{4}{15} \\ + \frac{2}{5} \\ \hline \end{array}$$

19.
$$\begin{array}{r} \frac{3}{7} \\ + \frac{3}{14} \\ \hline \end{array}$$

20.
$$\begin{array}{r} \frac{1}{2} \\ + \frac{1}{4} \\ \hline \end{array}$$

Adding Mixed Numbers with Unlike Denominators

SKILLS

Round each number to the nearest $\frac{1}{2}$ or whole number.

1. $1\frac{1}{8} =$ _____ 2. $3\frac{4}{5} =$ _____ 3. $2\frac{1}{6} =$ _____ 4. $5\frac{7}{8} =$ _____

Estimate each sum, then find the actual sum.

5. $4\frac{5}{12}$
+ $2\frac{1}{6}$

Estimate

6. $5\frac{1}{8}$
+ $2\frac{1}{2}$

Estimate

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

Estimate

8. $1\frac{5}{9}$
+ $2\frac{1}{3}$

Estimate

Add the mixed numbers.

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

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

11. $1\frac{2}{3} + 1\frac{2}{15} =$

12. $1\frac{5}{12} + 3\frac{1}{4} =$

13. $5\frac{3}{4} + 1\frac{1}{12} =$

14. $2\frac{3}{8} + 2\frac{5}{16} =$

15. $3\frac{1}{2} + 1\frac{1}{4} =$

16. $2\frac{2}{5} + 1\frac{4}{15} =$

17. $1\frac{3}{10} + 2\frac{2}{5} =$

18. $1\frac{1}{3} + 1\frac{1}{9} =$

19. $2\frac{1}{2} + 4\frac{3}{8} =$

20. $1\frac{5}{8} + 1\frac{1}{4} =$

Name _____

5.NF.1

Using the LCD to Add Fractions

SKILLS

Rewrite each pair of fractions with the same denominator, then find the sum.

1. $\frac{3}{4} =$ _____ Multiples of 4: _____

$+\frac{2}{3} =$ _____ Multiples of 3: _____

2. $\frac{5}{6} =$ _____ Multiples of 6: _____

$+\frac{1}{4} =$ _____ Multiples of 4: _____

3. $\frac{1}{5} =$ _____ Multiples of 5: _____

$+\frac{1}{2} =$ _____ Multiples of 2: _____

Find each sum. Write each answer in simplest form.

4. $\frac{3}{4}$
 $+\frac{1}{6}$

5. $\frac{5}{6}$
 $+\frac{5}{8}$

6. $\frac{5}{6}$
 $+\frac{3}{10}$

7. $\frac{5}{6}$
 $+\frac{4}{9}$

8. $\frac{7}{10}$
 $+\frac{5}{6}$

9. $\frac{9}{10}$
 $+\frac{7}{8}$

Name _____

5.NF.1

Using the LCD to Add Mixed Numbers

SKILLS

Add each set of mixed numbers. Write your answer in simplest form if necessary. An example is given.

First: Find common denominators.

Add $1\frac{1}{2}$ and $2\frac{4}{5}$

$$\frac{1}{2} = \frac{1 \times 5}{2 \times 5} = \frac{5}{10}$$

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

$$\frac{4}{5} = \frac{4 \times 2}{5 \times 2} = \frac{8}{10}$$

1. Add $3\frac{3}{4}$ and $2\frac{5}{6}$.

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

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

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

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

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

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

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

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

4. Add $3\frac{1}{4}$ + $1\frac{3}{10}$.

$$\frac{1}{4} =$$

$$\frac{3}{10} =$$

5. Add $1\frac{1}{2}$ + $2\frac{5}{6}$.

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

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

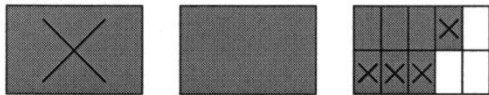
Name _____

5.NF.1

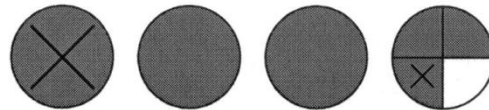
Subtracting Mixed Numbers with Like Denominators

SKILLS

Find each difference using the given models.
Write each answer in simplest form.



$$1. 2\frac{7}{10} - 1\frac{4}{10} = \square \frac{\square}{\square}$$



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

Find each difference. Write each answer in simplest form.

3. $2\frac{4}{7} - 2\frac{1}{7} =$

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

5. $6\frac{2}{8} - 3\frac{1}{8} =$

6. $4\frac{10}{11} - 4\frac{1}{11} =$

7. $2\frac{5}{9} - 1\frac{3}{9} =$

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

9. $3\frac{7}{8} - 3\frac{5}{8} =$

10. $2\frac{5}{7} - 1\frac{4}{7} =$

11. $3\frac{4}{13} - 1\frac{1}{13} =$

12. $2\frac{9}{11} - 1\frac{5}{11} =$

13. $3\frac{6}{7} - 1\frac{4}{7} =$

14. $7\frac{1}{2} - 5\frac{1}{2} =$

15. $4\frac{2}{9} - 2\frac{1}{9} =$

16. $4\frac{3}{7} - 1\frac{1}{7} =$

17. $4\frac{11}{12} - 2\frac{6}{12} =$

18. $4\frac{5}{8} - 3\frac{1}{8} =$

19. $5\frac{4}{7} - 2\frac{1}{7} =$

20. $4\frac{12}{13} - 1\frac{5}{13} =$

21.
$$\begin{array}{r} 6\frac{7}{9} \\ - 2\frac{3}{9} \\ \hline \end{array}$$

22.
$$\begin{array}{r} 5\frac{5}{6} \\ - 1\frac{2}{6} \\ \hline \end{array}$$

23.
$$\begin{array}{r} 8\frac{7}{8} \\ - 2\frac{3}{8} \\ \hline \end{array}$$

24.
$$\begin{array}{r} 7\frac{8}{11} \\ - 2\frac{5}{11} \\ \hline \end{array}$$

25.
$$\begin{array}{r} 5\frac{6}{7} \\ - 2\frac{3}{7} \\ \hline \end{array}$$

26.
$$\begin{array}{r} 12\frac{15}{16} \\ - 9\frac{9}{16} \\ \hline \end{array}$$

27.
$$\begin{array}{r} 15\frac{17}{20} \\ - 3\frac{7}{20} \\ \hline \end{array}$$

28.
$$\begin{array}{r} 26\frac{9}{10} \\ - 25\frac{4}{10} \\ \hline \end{array}$$

Subtracting Fractions with Unlike Denominators

SKILLS

Rewrite fractions using same denominator.
Find the difference of the numerators.
Simplify.

Find each difference. Write each answer in simplest form.

1. $\frac{1}{2} - \frac{3}{10} =$

2. $\frac{2}{3} - \frac{2}{9} =$

3. $\frac{7}{8} - \frac{1}{2} =$

4. $\frac{7}{10} - \frac{1}{5} =$

5. $\frac{2}{3} - \frac{4}{9} =$

6. $\frac{7}{8} - \frac{3}{4} =$

7. $\frac{1}{3} - \frac{1}{6} =$

8. $\frac{11}{12} - \frac{2}{3} =$

9. $\frac{3}{4} - \frac{3}{8} =$

10. $\frac{5}{12} - \frac{1}{4} =$

11. $\frac{5}{8} - \frac{1}{4} =$

12. $\frac{2}{3} - \frac{1}{6} =$

Subtract. Write each answer in simplest form.

13. $\frac{2}{3} - \frac{1}{6} =$

14. $\frac{13}{16} - \frac{3}{8} =$

15. $\frac{7}{9} - \frac{1}{3} =$

16. $\frac{14}{15} - \frac{2}{5} =$

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

18. $\frac{9}{10} - \frac{3}{5} =$

19. $\frac{3}{4} - \frac{5}{12} =$

20. $\frac{11}{12} - \frac{1}{6} =$

21.
$$\begin{array}{r} \frac{9}{11} \\ - \frac{5}{11} \\ \hline \end{array}$$

22.
$$\begin{array}{r} \frac{7}{8} \\ - \frac{1}{4} \\ \hline \end{array}$$

23.
$$\begin{array}{r} \frac{6}{9} \\ - \frac{1}{3} \\ \hline \end{array}$$

24.
$$\begin{array}{r} \frac{15}{16} \\ - \frac{3}{4} \\ \hline \end{array}$$

Name _____

5.NF.1

Using the LCD to Subtract Fractions

SKILLS

Rewrite each pair of fractions with the same denominator, then subtract.

1. $\frac{8}{9} =$ _____

Multiples of 9: _____

$-\frac{5}{6} =$ _____

Multiples of 6: _____

LCD = _____

2. $\frac{3}{4} =$ _____

Multiples of 4: _____

$-\frac{1}{6} =$ _____

Multiples of 6: _____

LCD = _____

3. $\frac{3}{10} =$ _____

Multiples of 10: _____

$-\frac{1}{4} =$ _____

Multiples of 4: _____

LCD = _____

Subtract. Write each answer in simplest form.

4. $\frac{5}{9} - \frac{1}{6} =$

5. $\frac{11}{12} - \frac{2}{9} =$

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

7. $\frac{5}{7} - \frac{1}{6} =$

8. $\frac{11}{14} - \frac{5}{8} =$

9. $\frac{4}{5} - \frac{1}{2} =$

10. $\frac{7}{10} - \frac{3}{8} =$

11. $\frac{5}{6} - \frac{4}{15} =$

12. $\frac{11}{12} - \frac{3}{8} =$

13. $\frac{7}{8} - \frac{1}{3} =$

14. $\frac{2}{3} - \frac{1}{5} =$

15. $\frac{5}{6} - \frac{2}{9} =$

Subtracting Fractions and Mixed Numbers from Whole Numbers**SKILLS****Subtract. Write each answer in simplest form.**

1.
$$\begin{array}{r} 4 \\ - \frac{2}{3} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 5 \\ - \frac{1}{2} \\ \hline \end{array}$$

3.
$$\begin{array}{r} 7 \\ - \frac{7}{10} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 10 \\ - \frac{3}{8} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 6 \\ - 1\frac{2}{5} \\ \hline \end{array}$$

6.
$$\begin{array}{r} 7 \\ - 2\frac{4}{9} \\ \hline \end{array}$$

7.
$$\begin{array}{r} 12 \\ - 9\frac{3}{5} \\ \hline \end{array}$$

8.
$$\begin{array}{r} 8 \\ - 2\frac{5}{11} \\ \hline \end{array}$$

9. $6 - \frac{3}{4} =$

10. $5 - 1\frac{1}{2} =$

11. $8 - 3\frac{2}{3} =$

12. $4 - 1\frac{7}{8} =$

13. $10 - 3\frac{6}{7} =$

14. $7 - 2\frac{5}{11} =$

15. $3 - 1\frac{5}{12} =$

16. $5 - 4\frac{3}{5} =$

17. $9 - 6\frac{2}{7} =$

18. $2 - 1\frac{9}{10} =$

19. $8 - 6\frac{4}{11} =$

20. $9 - 4\frac{4}{9} =$

21. Which number equals $6\frac{1}{5}$?

a. $5\frac{11}{5}$

b. $5\frac{7}{5}$

c. $5\frac{6}{5}$

d. $6\frac{6}{5}$

22. Which number equals $4\frac{2}{7}$?

a. $4\frac{6}{7}$

b. $3\frac{12}{7}$

c. $3\frac{6}{7}$

d. $3\frac{9}{7}$

23. Which number equals $3\frac{3}{4}$?

a. $2\frac{7}{4}$

b. $2\frac{13}{4}$

c. $3\frac{7}{4}$

d. $2\frac{9}{4}$

24. Which number equals 7?

a. $6\frac{1}{7}$

b. $6\frac{7}{6}$

c. $7\frac{10}{9}$

d. $6\frac{9}{9}$

25. Which number equals $2\frac{3}{10}$?

a. $1\frac{5}{10}$

b. $1\frac{13}{10}$

c. $2\frac{13}{10}$

d. $1\frac{15}{10}$

26. Which number equals $3\frac{1}{6}$?

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

b. $2\frac{11}{6}$

c. $2\frac{7}{6}$

d. $3\frac{11}{6}$

Name _____

5.NF.1

Using the LCD to Subtract Mixed Numbers

SKILLS

Subtract. Write each answer in simplest form.

$$\begin{array}{r} 1. \quad 3\frac{1}{4} \\ - 1\frac{5}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 4\frac{1}{2} \\ - 2\frac{6}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 7\frac{1}{6} \\ - 3\frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 7\frac{1}{2} \\ - 1\frac{5}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 6\frac{1}{6} \\ - 5\frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 9\frac{5}{8} \\ - 4\frac{5}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 8\frac{2}{5} \\ - 2\frac{13}{15} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 12\frac{1}{8} \\ - 9\frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 2\frac{1}{5} \\ - 1\frac{4}{15} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 5\frac{1}{3} \\ - 2\frac{7}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 5\frac{5}{12} \\ - 3\frac{7}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 4\frac{1}{2} \\ - 2\frac{5}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 6 \\ - 1\frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 9\frac{1}{7} \\ - 2\frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 2\frac{1}{2} \\ - \frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 5\frac{1}{8} \\ - 1\frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad 8\frac{1}{6} \\ - 4\frac{5}{24} \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 4\frac{3}{10} \\ - 1\frac{5}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 5\frac{3}{8} \\ - 3\frac{7}{12} \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 9\frac{3}{5} \\ - 6\frac{8}{15} \\ \hline \end{array}$$