

5th

Week 2



Lesson 5.2 Adding Fractions with Unlike Denominators

$$\begin{array}{r} \frac{1}{7} \times \frac{3}{3} = \frac{3}{21} \\ \frac{2}{3} \times \frac{7}{7} = \frac{14}{21} \\ + \frac{2}{3} \times \frac{7}{7} = + \frac{14}{21} \\ \hline \frac{17}{21} \end{array}$$

To add fractions, the denominators must be the same. When you have unlike denominators, find the least common multiple (LCM) and rename the fractions.

In the example, the denominators are 3 and 7, so find the LCM of 3 and 7.

Multiples of 3: 3, 6, 9, 12, 15, 18, 21, 24

Multiples of 7: 7, 14, 21, 28

$$\begin{array}{r} \frac{6}{7} \times \frac{3}{3} = \frac{18}{21} \\ \frac{2}{3} \times \frac{7}{7} = \frac{14}{21} \\ + \frac{2}{3} \times \frac{7}{7} = + \frac{14}{21} \\ \hline \frac{32}{21} = 1 \frac{11}{21} \end{array}$$

The least common multiple of 3 and 7 is 21. To change each fraction so it has the same denominator, multiply both the numerator and denominator by the same number.

If necessary, change improper fractions to mixed numerals in simplest form.

Add each fraction. Write answers in simplest form.

	a	b	c	d	e
1.	$\frac{3}{5}$ + $\frac{1}{4}$ <hr/>	$\frac{2}{3}$ + $\frac{2}{7}$ <hr/>	$\frac{1}{5}$ + $\frac{1}{7}$ <hr/>	$\frac{3}{8}$ + $\frac{1}{6}$ <hr/>	$\frac{1}{2}$ + $\frac{1}{3}$ <hr/>

2.	$\frac{2}{9}$ + $\frac{5}{8}$ <hr/>	$\frac{6}{7}$ + $\frac{1}{3}$ <hr/>	$\frac{2}{5}$ + $\frac{5}{7}$ <hr/>	$\frac{7}{10}$ + $\frac{1}{3}$ <hr/>	$\frac{3}{7}$ + $\frac{1}{8}$ <hr/>
-----------	---	---	---	--	---

3.	$\frac{2}{3}$ + $\frac{1}{5}$ <hr/>	$\frac{4}{7}$ + $\frac{5}{9}$ <hr/>	$\frac{3}{4}$ + $\frac{3}{10}$ <hr/>	$\frac{7}{8}$ + $\frac{2}{5}$ <hr/>	$\frac{8}{9}$ + $\frac{6}{7}$ <hr/>
-----------	---	---	--	---	---

Lesson 5.3 Subtracting Fractions with Unlike Denominators

$$\begin{array}{r} \frac{2}{3} \times \frac{7}{7} = \frac{14}{21} \\ - \frac{2}{7} \times \frac{3}{3} = -\frac{6}{21} \\ \hline \frac{8}{21} \end{array}$$

When subtracting fractions that have different denominators, rename fractions to have a common denominator. Then, subtract fractions, and write the difference in simplest form.

$$\begin{array}{r} \frac{5}{6} \times \frac{1}{1} = \frac{5}{6} \\ - \frac{2}{3} \times \frac{2}{2} = -\frac{4}{6} \\ \hline \frac{1}{6} \end{array}$$

Subtract. Write answers in simplest form.

	a	b	c	d	e
1.	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{9}{10}$	$\frac{4}{7}$	$\frac{5}{9}$
	$-\frac{1}{2}$	$-\frac{1}{3}$	$-\frac{2}{5}$	$-\frac{1}{8}$	$-\frac{1}{3}$
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

2.	$\frac{2}{5}$	$\frac{3}{5}$	$\frac{2}{3}$	$\frac{5}{6}$	$\frac{3}{4}$
	$-\frac{1}{9}$	$-\frac{2}{7}$	$-\frac{3}{8}$	$-\frac{1}{3}$	$-\frac{2}{9}$
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

3.	$\frac{7}{10}$	$\frac{8}{9}$	$\frac{7}{8}$	$\frac{7}{10}$	$\frac{4}{5}$
	$-\frac{3}{6}$	$-\frac{1}{4}$	$-\frac{5}{12}$	$-\frac{1}{4}$	$-\frac{3}{7}$
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

Lesson 7.3 The Order of Operations

Find the value of each expression.

a

1. $9 \div 9 \times (8 + 7) = \underline{\hspace{2cm}}$

2. $10 \div 5 \times (3 \times 3) = \underline{\hspace{2cm}}$

3. $[4 + 1 + (2 \times 2)] \div 3 = \underline{\hspace{2cm}}$

4. $\{10 - [(8 + 2) - 8]\} \times 2 = \underline{\hspace{2cm}}$

5. $10 \div [(1 + 5) \div 6] = \underline{\hspace{2cm}}$

6. $4 + 1 + 6 - 4 = \underline{\hspace{2cm}}$

7. $7 \div (10 + 3 - 6) + 2 = \underline{\hspace{2cm}}$

b

$4 \div (8 - 6) \div 2 = \underline{\hspace{2cm}}$

$10 + 8 \div 1 - 5 = \underline{\hspace{2cm}}$

$1 \times 2 \times (4 - 2) = \underline{\hspace{2cm}}$

$90 + 9 \div (3 \times 3) = \underline{\hspace{2cm}}$

$5 + 4 - 3 + 9 = \underline{\hspace{2cm}}$

$2 \times 2 \div (10 - 9) = \underline{\hspace{2cm}}$

$60 - \{[(2 + 7) \div 3] \times 12\} = \underline{\hspace{2cm}}$

Lesson 3.2 Adding Decimals to Hundredths

To add decimals to hundredths, line up the decimal points. Then, add normally.

$$\begin{array}{r} \overset{|}{26.2} \\ + 5.3 \\ \hline 31.5 \end{array} \quad \begin{array}{r} \overset{|}{4.65} \\ + 0.08 \\ \hline 4.73 \\ + 7.34 \\ \hline 12.07 \end{array}$$

Add.

	a	b	c	d
1.	$\begin{array}{r} 3.2 \\ + 8.5 \\ \hline \end{array}$	$\begin{array}{r} 0.73 \\ + 0.88 \\ \hline \end{array}$	$\begin{array}{r} 1.84 \\ + 2.39 \\ \hline \end{array}$	$\begin{array}{r} 1.44 \\ + 8.37 \\ \hline \end{array}$
2.	$\begin{array}{r} 0.01 \\ + 2.30 \\ \hline \end{array}$	$\begin{array}{r} 27.12 \\ + 13.09 \\ \hline \end{array}$	$\begin{array}{r} 42.32 \\ + 2.01 \\ \hline \end{array}$	$\begin{array}{r} 6.54 \\ + 3.98 \\ \hline \end{array}$
3.	$\begin{array}{r} 2.72 \\ 3.51 \\ + 4.22 \\ \hline \end{array}$	$\begin{array}{r} 68.52 \\ 1.72 \\ + 0.55 \\ \hline \end{array}$	$\begin{array}{r} 27.15 \\ 105.21 \\ + 2.63 \\ \hline \end{array}$	$\begin{array}{r} 7.2 \\ 8.8 \\ + 17.5 \\ \hline \end{array}$
4.	$\begin{array}{r} 5.3 \\ + 2.8 \\ \hline \end{array}$	$\begin{array}{r} 68.68 \\ + 8.48 \\ \hline \end{array}$	$\begin{array}{r} 32.12 \\ + 14.21 \\ \hline \end{array}$	$\begin{array}{r} 76.58 \\ + 24.30 \\ \hline \end{array}$
5.	$\begin{array}{r} 6.50 \\ + 8.72 \\ \hline \end{array}$	$\begin{array}{r} 486.25 \\ + 103.88 \\ \hline \end{array}$	$\begin{array}{r} 168.42 \\ + 35.69 \\ \hline \end{array}$	$\begin{array}{r} 25.09 \\ + 3.11 \\ \hline \end{array}$
6.	$\begin{array}{r} 0.11 \\ + 0.65 \\ \hline \end{array}$	$\begin{array}{r} 4.21 \\ + 8.38 \\ \hline \end{array}$	$\begin{array}{r} 68.68 \\ + 25.52 \\ \hline \end{array}$	$\begin{array}{r} 2.00 \\ + 6.13 \\ \hline \end{array}$
7.	$\begin{array}{r} 3.16 \\ 2.12 \\ + 1.61 \\ \hline \end{array}$	$\begin{array}{r} 0.01 \\ 1.40 \\ + 0.50 \\ \hline \end{array}$	$\begin{array}{r} 0.23 \\ 0.60 \\ + 0.72 \\ \hline \end{array}$	$\begin{array}{r} 4.00 \\ 2.90 \\ + 0.02 \\ \hline \end{array}$

Lesson 3.3 Subtracting Decimals to Tenths

Align decimal points.

$$\begin{array}{r}
 \text{minuend} \rightarrow 32.8 \\
 \text{subtrahend} \rightarrow - 1.5 \\
 \hline
 \text{difference} \rightarrow 31.3
 \end{array}$$

Align decimal points
in difference.
The difference is 31.3

To subtract
decimals, first align
the decimal points
in the minuend and
subtrahend. Then,
subtract decimals
like whole numbers.

Align decimal points.

$$\begin{array}{r}
 \text{minuend} \rightarrow 142.8 \\
 \text{subtrahend} \rightarrow - 1.9 \\
 \hline
 \text{difference} \rightarrow 140.9
 \end{array}$$

Align decimal points
in difference.
The difference is 140.9

Subtract.

	a	b	c	d	e
1.	$ \begin{array}{r} 75.2 \\ - 4.1 \\ \hline \end{array} $	$ \begin{array}{r} 42.8 \\ - 12.6 \\ \hline \end{array} $	$ \begin{array}{r} 1.2 \\ - 1.1 \\ \hline \end{array} $	$ \begin{array}{r} 0.3 \\ - 0.2 \\ \hline \end{array} $	$ \begin{array}{r} 10.3 \\ - 7.6 \\ \hline \end{array} $
2.	$ \begin{array}{r} 576.2 \\ - 341.1 \\ \hline \end{array} $	$ \begin{array}{r} 87.0 \\ - 1.1 \\ \hline \end{array} $	$ \begin{array}{r} 1.3 \\ - 0.1 \\ \hline \end{array} $	$ \begin{array}{r} 60.4 \\ - 7.1 \\ \hline \end{array} $	$ \begin{array}{r} 117.1 \\ - 24.0 \\ \hline \end{array} $
3.	$ \begin{array}{r} 43.4 \\ - 21.5 \\ \hline \end{array} $	$ \begin{array}{r} 32.1 \\ - 0.0 \\ \hline \end{array} $	$ \begin{array}{r} 5.1 \\ - 2.3 \\ \hline \end{array} $	$ \begin{array}{r} 98.0 \\ - 17.0 \\ \hline \end{array} $	$ \begin{array}{r} 0.03 \\ - 0.01 \\ \hline \end{array} $
4.	$ \begin{array}{r} 7.8 \\ - 0.5 \\ \hline \end{array} $	$ \begin{array}{r} 52.4 \\ - 23.8 \\ \hline \end{array} $	$ \begin{array}{r} 1.9 \\ - 0.7 \\ \hline \end{array} $	$ \begin{array}{r} 0.9 \\ - 0.0 \\ \hline \end{array} $	$ \begin{array}{r} 10.1 \\ - 8.3 \\ \hline \end{array} $
5.	$ \begin{array}{r} 3.9 \\ - 1.1 \\ \hline \end{array} $	$ \begin{array}{r} 33.9 \\ - 15.7 \\ \hline \end{array} $	$ \begin{array}{r} 4.3 \\ - 1.7 \\ \hline \end{array} $	$ \begin{array}{r} 3.9 \\ - 1.3 \\ \hline \end{array} $	$ \begin{array}{r} 22.8 \\ - 17.5 \\ \hline \end{array} $
6.	$ \begin{array}{r} 2.4 \\ - 0.2 \\ \hline \end{array} $	$ \begin{array}{r} 2.9 \\ - 0.7 \\ \hline \end{array} $	$ \begin{array}{r} 58.5 \\ - 24.9 \\ \hline \end{array} $	$ \begin{array}{r} 75.0 \\ - 18.2 \\ \hline \end{array} $	$ \begin{array}{r} 183.7 \\ - 142.9 \\ \hline \end{array} $

