

2.3

Practice

For use after Lesson 2.3

Subtract. Write fractions in simplest form.

1. $\frac{4}{9} + \left(\frac{2}{9}\right)$
 (-W) (+B)
 $\frac{6}{9} = \frac{2}{3}$

2. $-2\frac{3}{7} - 1\frac{2}{3}$
 (-B)
 $-2\frac{3}{7} - 1\frac{2}{3} = -3\frac{13}{21}$
 $-3\frac{13}{21} = -4\frac{2}{21}$

3. $-2.35 + (-1.27)$ SUBTRACT
 (-W) (+B)
 $\begin{array}{r} 2.35 \\ + 1.27 \\ \hline 3.62 \end{array}$
 -3.62

Find the distance between the two numbers on a number line.

4. $-3\frac{1}{4}, -6\frac{1}{2}$

same side of 0 means subtract absolute values

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

5. $-1.5, 2.8$ opposite sides of 0, ADD

$\begin{array}{r} 2.8 \\ + 1.5 \\ \hline 4.3 \end{array}$

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

same side subtract absolute values

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

Evaluate.

7. $2\frac{1}{2} + \left(-\frac{7}{6}\right) - 1\frac{3}{4}$
 (+W) (-B)
 $2\frac{1}{2} - \frac{7}{6} - 1\frac{3}{4}$

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

8. $2.37 + (-1.55) - 2.48$
 ADD 1st, SUBTRACT 2nd

$\begin{array}{r} 2.37 \\ + 1.55 \\ \hline 3.92 \\ - 2.48 \\ \hline 1.44 \end{array}$

9. Your friend drinks $\frac{2}{3}$ of a bottle of water. You drink $\frac{5}{7}$ of a bottle of water. Find the difference of the amounts of water left in each bottle.

Assume bottles are the same size.

Friend: $\frac{1}{3}$ left $\frac{1}{3} = \frac{7}{21}$
 You: $\frac{2}{7}$ left $\frac{2}{7} = \frac{6}{21}$
 $\frac{7}{21} - \frac{6}{21} = \frac{1}{21}$

$\frac{1}{21}$ of a bottle different