

Name: L O 2

Date: 10-27-20

Lesson 3.6 Subtracting Mixed Numbers

Subtract. Express each difference in simplest form.

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

$$\begin{array}{r} 3\frac{8}{9} - 1\frac{1}{3} \\ \downarrow \quad \downarrow \\ 3\frac{8}{9} - 1\frac{3}{9} \\ \hline 2\frac{5}{9} \end{array}$$

2. $5\frac{5}{6} - 4\frac{7}{12} = 1\frac{3}{12} = 1\frac{1}{4}$

$$\begin{array}{r} 5\frac{5}{6} - 4\frac{7}{12} \\ \downarrow \quad \downarrow \\ 5\frac{10}{12} - 4\frac{7}{12} \\ \hline 1\frac{3}{12} \\ \hline 1\frac{1}{4} \end{array}$$

3. $4\frac{1}{4} - 1\frac{9}{10} = 2\frac{7}{20}$

$$\begin{array}{r} 4\frac{1}{4} - 1\frac{9}{10} \\ \downarrow \quad \downarrow \\ 4\frac{5}{20} - 1\frac{18}{20} \\ \hline 3\frac{13}{20} \\ + 1\frac{20}{20} \\ \hline 2\frac{7}{20} \end{array}$$

4. $5\frac{1}{8} - 1\frac{11}{12} = 4\frac{5}{24}$

$$\begin{array}{r} 5\frac{1}{8} - 1\frac{11}{12} \\ \downarrow \quad \downarrow \\ 5\frac{3}{24} - 1\frac{22}{24} \\ \hline 4\frac{11}{24} \\ + 1\frac{24}{24} \\ \hline 3\frac{35}{24} = 4\frac{11}{24} \end{array}$$

5. $2\frac{1}{3} - 1\frac{5}{7} = \frac{13}{21}$

$$\begin{array}{r} 2\frac{1}{3} - 1\frac{5}{7} \\ \downarrow \quad \downarrow \\ 2\frac{7}{21} - 1\frac{15}{21} \\ \hline 1\frac{2}{21} \\ + 1\frac{21}{21} \\ \hline 2\frac{23}{21} \\ \hline 2\frac{2}{21} \end{array}$$

6. $2\frac{2}{9} - 2\frac{5}{6} = 1\frac{7}{18}$

$$\begin{array}{r} 2\frac{2}{9} - 2\frac{5}{6} \\ \downarrow \quad \downarrow \\ 2\frac{4}{18} - 2\frac{15}{18} \\ \hline 1\frac{11}{18} \\ + 1\frac{18}{18} \\ \hline 2\frac{29}{18} \\ \hline 1\frac{11}{18} \end{array}$$

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Estimate each difference by rounding to the nearest half or whole number.

7.

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

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

8.

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

$$\begin{array}{r} 10\frac{1}{2} \\ - 5\frac{4}{5} \\ \hline 5\frac{1}{10} \end{array}$$

9.

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

$$\begin{array}{r} 6\frac{1}{6} \\ - 6\frac{5}{8} \\ \hline 1\frac{1}{2} \end{array}$$

10.

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

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

11.

$$4\frac{3}{7} - 2\frac{1}{4} = 2\frac{14}{28}$$

$$\begin{array}{r} 4\frac{3}{7} \\ - 2\frac{1}{4} \\ \hline 2\frac{14}{28} \end{array}$$

12.

$$5\frac{9}{10} - 4\frac{5}{11} = 1\frac{49}{110}$$

$$\begin{array}{r} 5\frac{9}{10} \\ - 4\frac{5}{11} \\ \hline 1\frac{49}{110} \end{array}$$