

Name: L O 2

Date: 10-27-20

Lesson 3.6 Subtracting Mixed Numbers

Subtract. Express each difference in simplest form.

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

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

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

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

reduce

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

$$\begin{array}{r} 4\frac{1}{4} - 1\frac{9}{10} \\ \downarrow \quad \downarrow \\ 5 \quad 9 \\ \hline 20 \quad 10 \\ + \frac{20}{20} \quad \frac{20}{20} \\ \hline 23 \quad 20 \\ \hline 23 \quad 20 \end{array}$$

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

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

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

$$\begin{array}{r} 2\frac{1}{3} - 1\frac{5}{7} \\ \downarrow \quad \downarrow \\ 2 \quad 5 \\ \hline 21 \quad 21 \\ + \frac{21}{21} \quad \frac{15}{21} \\ \hline 28 \quad 16 \\ \hline 28 \quad 16 \end{array}$$

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

$$\begin{array}{r} 2\frac{2}{9} - 2\frac{5}{6} \\ \downarrow \quad \downarrow \\ 4 \quad 5 \\ \hline 18 \quad 9 \\ + \frac{18}{18} \quad \frac{15}{18} \\ \hline 22 \quad 15 \\ \hline 22 \quad 15 \end{array}$$

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

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

↓ ↓

$\frac{3}{3} \quad \frac{1}{6}$

$\frac{4}{6} \quad \frac{4}{6}$

$\frac{1}{6}$

✓ 8. $10\frac{1}{2} - 5\frac{4}{5} = 4\frac{7}{10}$

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$\frac{5}{10} \quad \frac{8}{10}$

$\frac{10}{10} \quad \frac{15}{10}$

$\frac{10}{10} \quad \frac{10}{10}$

✓ 9. $7\frac{1}{8} - 6\frac{5}{8} = 1\frac{13}{24}$

↓ ↓

$\frac{4}{24} \quad \frac{15}{24}$

$\frac{1}{24}$

$\frac{28}{24}$

$\frac{24}{24}$

✓ 10. $3\frac{1}{2} - 1\frac{5}{9} = 1\frac{17}{18}$

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$\frac{9}{18} \quad \frac{10}{18}$

$\frac{18}{18} \quad \frac{27}{18}$

$\frac{18}{18}$

✓ 11. $4\frac{3}{7} - 2\frac{1}{4} = 2\frac{14}{28}$

↓ ↓

$\frac{21}{28} \quad \frac{7}{28}$

$\frac{14}{28}$

✓ 12. $5\frac{9}{10} - 4\frac{5}{11} = 1\frac{49}{110}$

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$\frac{99}{110} \quad \frac{50}{110}$

$\frac{110}{110} \quad \frac{110}{110}$