

Name: _____

Subtracting Mixed Numbers

with Like Denominators, Requires Simplifying

$$\begin{array}{r} 3\frac{3}{8} \\ - 2\frac{1}{8} \\ \hline \end{array}$$

Diagram illustrating the subtraction process:

- The first diagram shows the original problem: $3\frac{3}{8} - 2\frac{1}{8}$. A bracket labeled "same" indicates that the denominators are the same.
- The second diagram shows the borrowing process: $3\frac{3}{8} - 2\frac{1}{8}$. A bracket is drawn around the 3 and the 3/8, and an arrow points to the 2 and the 1/8, indicating that 1 whole is borrowed from the 3, leaving 2, and the 3/8 becomes 2/8. The result is $2\frac{2}{8}$.
- The third diagram shows the final simplified answer: $3\frac{3}{8} - 2\frac{1}{8} = 1\frac{2}{8} = 1\frac{1}{4}$.

Subtract the fractions and simplify the answers.

a. $5\frac{4}{6}$
 $- 2\frac{2}{6}$

b. $6\frac{3}{4}$
 $- 1\frac{1}{4}$

c. $9\frac{5}{10}$
 $- 5\frac{3}{10}$

d. $8\frac{6}{8}$
 $- 4\frac{4}{8}$

e. $3\frac{4}{9}$
 $- 1\frac{1}{9}$



Preview

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k. $4\frac{8}{9}$
 $- 3\frac{2}{9}$

l. $1\frac{6}{12}$
 $- 1\frac{3}{12}$

m. $6\frac{6}{10}$
 $- 3\frac{2}{10}$

n. $5\frac{6}{14}$
 $- \frac{4}{14}$

o. $7\frac{6}{12}$
 $- 1\frac{4}{12}$

p. Tom walked $2\frac{5}{6}$ miles on Wednesday.

He walked $1\frac{1}{6}$ miles on Thursday.

How many more miles did he walk on Wednesday?

ANSWER KEY

Subtracting Mixed Numbers

with Like Denominators, Requires Simplifying

$$\begin{array}{r} 3\frac{3}{8} \\ - 2\frac{1}{8} \\ \hline \end{array}$$

Diagram illustrating the subtraction process:

- Step 1: $3\frac{3}{8} - 2\frac{1}{8}$. The word "same" is written next to the fraction parts, indicating they have the same denominator.
- Step 2: $3\frac{3}{8} - 2\frac{1}{8} = 1\frac{2}{8}$. A blue arrow points from the 3 in the whole number part to the 1 in the whole number part of the result, and another blue arrow points from the 3 in the numerator to the 2 in the numerator, showing the simplification of the fraction part.
- Step 3: $1\frac{2}{8} = 1\frac{1}{4}$. The final simplified answer.

Subtract the fractions and simplify the answers.


a. $5\frac{4}{6}$
 $- 2\frac{1}{6}$

b. $6\frac{3}{4}$
 $- 1\frac{1}{4}$

c. $9\frac{5}{10}$
 $- 5\frac{3}{10}$

d. $8\frac{6}{8}$
 $- 4\frac{4}{8}$

e. $3\frac{4}{9}$
 $- 1\frac{1}{9}$



Preview

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k. $4\frac{8}{9}$
 $- 3\frac{2}{9}$

$1\frac{6}{9}$ or $1\frac{2}{3}$

l. $1\frac{6}{12}$
 $- 1\frac{3}{12}$

$\frac{3}{12}$ or $\frac{1}{4}$

m. $6\frac{6}{10}$
 $- 3\frac{2}{10}$

$3\frac{4}{10}$ or $3\frac{2}{5}$

n. $5\frac{6}{14}$
 $- \frac{4}{14}$

$5\frac{2}{14}$ or $5\frac{1}{7}$

o. $7\frac{6}{12}$
 $- 1\frac{4}{12}$

$6\frac{2}{12}$ or $6\frac{1}{6}$

p. Tom walked $2\frac{5}{6}$ miles on Wednesday.

He walked $1\frac{1}{6}$ miles on Thursday.

How many more miles did he walk on Wednesday?

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

$1\frac{4}{6}$ or $1\frac{2}{3}$ miles