

MY Homework

Lesson 12

Subtract Mixed Numbers

Homework Helper



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Find $8\frac{1}{2} - 3\frac{1}{6}$.

Estimate $9 - 3 = 6$

1 Write an equivalent fraction for $8\frac{1}{2}$ so that the fractions have the same denominator. The LCD is 6.

$$8\frac{1}{2} = 8\frac{1 \times 3}{2 \times 3} \rightarrow 8\frac{3}{6}$$

2 Subtract the wholes. Then subtract the fractions.

$$\begin{array}{r} 8\frac{1}{2} \rightarrow 8\frac{3}{6} \\ - 3\frac{1}{6} \rightarrow - 3\frac{1}{6} \\ \hline 5\frac{2}{6} \text{ or } 5\frac{1}{3} \end{array}$$

So, $8\frac{1}{2} - 3\frac{1}{6} = 5\frac{2}{6}$ or $5\frac{1}{3}$.

Subtract the wholes.

$$8 - 3 = 5$$

Subtract the fractions.

$$\frac{3}{6} - \frac{1}{6} = \frac{2}{6} \text{ or } \frac{1}{3}$$

Check for Reasonableness $6 \approx 5\frac{1}{3}$

Practice

Estimate, then subtract. Write each difference in simplest form.

1.
$$\begin{array}{r} 6\frac{5}{8} \\ - 2\frac{3}{8} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 9\frac{3}{4} \\ - 1\frac{1}{3} \\ \hline \end{array}$$

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




Problem Solving

4. Mrs. Gabel bought $7\frac{5}{6}$ gallons of punch for the class party. The students drank $4\frac{1}{2}$ gallons of punch. How much punch was left at the end of the party? Write in simplest form.
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5. Bella is $10\frac{5}{12}$ years old. Franco is $12\frac{7}{12}$ years old. What is the difference in their ages? Write in simplest form.
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6. In one week, the fifth grade class recycled $9\frac{2}{3}$ pounds of glass and $12\frac{3}{4}$ pounds of newspaper. How many more pounds of newspaper than glass did the class recycle?
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7. **Mathematical PRACTICE**  **Use Number Sense** A snack mix recipe calls for $5\frac{3}{4}$ cups of cereal and $3\frac{5}{12}$ cups less of raisins. How many cups of raisins are needed? Write in simplest form.
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My Work!

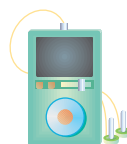
Mix it up!



Test Practice

8. What is the difference between the two weights?
- (A) $\frac{1}{2}$ ounce (C) $1\frac{3}{8}$ ounces
- (B) $\frac{7}{8}$ ounce (D) $1\frac{7}{8}$ ounces

$4\frac{1}{2}$ oz



$3\frac{1}{8}$ oz