

Name _____

Addition with Unlike Denominators



COMMON CORE STANDARD MACC.5.NF.1.2

Use equivalent fractions as a strategy to add and subtract fractions.

Find the sum. Write your answer in simplest form.

1. $\frac{1}{2} + \frac{3}{4}$

$\frac{1}{2} + \frac{3}{4} = \frac{2}{4} + \frac{3}{4} = \frac{5}{4}$, or $1\frac{1}{4}$

$1\frac{1}{4}$

2. $\frac{1}{3} + \frac{1}{4}$

3. $\frac{3}{5} + \frac{1}{2}$

4. $\frac{3}{8} + \frac{1}{2}$

5. $\frac{1}{4} + \frac{5}{8}$

6. $\frac{2}{3} + \frac{3}{4}$

Problem Solving



13. Brandus bought $\frac{1}{3}$ pound of ground turkey and $\frac{3}{4}$ pound of ground beef to make sausages. How many pounds of meat did he buy?

14. To make a ribbon and bow for a hat, Stacey needs $\frac{5}{6}$ yard of black ribbon and $\frac{2}{3}$ yard of red ribbon. How much total ribbon does she need?

Name _____

Subtraction with Unlike Denominators



COMMON CORE STANDARD MACC.5.NF.1.2

Use equivalent fractions as a strategy to add and subtract fractions.

Use fraction strips to find the difference. Write your answer in simplest form.

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

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

$$\frac{1}{6}$$

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

3. $\frac{7}{8} - \frac{1}{2}$

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

5. $\frac{2}{3} - \frac{1}{4}$

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

Problem Solving REAL WORLD

13. Amber had $\frac{3}{8}$ of a cake left after her party. She wrapped a piece that was $\frac{1}{4}$ of the original cake for her best friend. What fractional part did she have left for herself?

14. Wesley bought $\frac{1}{2}$ pound of nails for a project. When he finished the project, he had $\frac{1}{4}$ pound of the nails left. How many pounds of nails did he use?

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Estimate Fraction Sums and Differences



COMMON CORE STANDARD MACC.5.NF.1.2

Use equivalent fractions as a strategy to add and subtract fractions.

Estimate the sum or difference.

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

2. $\frac{1}{8} + \frac{1}{4}$

3. $\frac{4}{5} - \frac{1}{2}$

Think: $\frac{1}{3}$ is closer to $\frac{1}{2}$ than to 0.

Estimate: 0

Estimate: _____

Estimate: _____

4. $2\frac{3}{5} - 1\frac{3}{8}$

5. $\frac{1}{5} + \frac{3}{7}$

6. $\frac{2}{5} + \frac{2}{3}$

Estimate: _____

Estimate: _____

Estimate: _____

Problem Solving REAL WORLD

13. For a fruit salad recipe, Jenna combined $\frac{3}{8}$ cup of raisins, $\frac{7}{8}$ cup of oranges, and $\frac{3}{4}$ cup of apples. About how many cups of fruit are in the salad?

14. Tyler had $2\frac{7}{16}$ yards of fabric. He used $\frac{3}{4}$ yard to make a vest. About how much fabric did he have left?

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Common Denominators and Equivalent Fractions



COMMON CORE STANDARD MACC.5.NF.1.1

Use equivalent fractions as a strategy to add and subtract fractions.

Use a common denominator to write an equivalent fraction for each fraction.

1. $\frac{1}{5}, \frac{1}{2}$ common denominator: **10**

2. $\frac{1}{4}, \frac{2}{3}$ common denominator: _____

3. $\frac{5}{6}, \frac{1}{3}$ common denominator: _____

Think: 10 is a multiple of 5 and 2.
Find equivalent fractions with a denominator of 10.

4. $\frac{3}{5}, \frac{1}{3}$ common denominator: _____

5. $\frac{1}{2}, \frac{3}{8}$ common denominator: _____

6. $\frac{1}{6}, \frac{1}{4}$ common denominator: _____

Use the least common denominator to write an equivalent fraction for each fraction.

7. $\frac{5}{6}, \frac{2}{9}$

8. $\frac{1}{12}, \frac{3}{8}$

9. $\frac{5}{9}, \frac{2}{15}$

Name _____

Add and Subtract Fractions



COMMON CORE STANDARD MACC.5.NF.1.1

Use equivalent fractions as a strategy to add and subtract fractions.

Find the sum or difference. Write your answer in simplest form.

1. $\frac{1}{2} - \frac{1}{7}$

$$\begin{array}{r} \frac{1}{2} \rightarrow \frac{7}{14} \\ - \frac{1}{7} \rightarrow - \frac{2}{14} \\ \hline \frac{5}{14} \end{array}$$

2. $\frac{7}{10} - \frac{1}{2}$

3. $\frac{1}{6} + \frac{1}{2}$

4. $\frac{5}{8} + \frac{2}{5}$

5. $\frac{9}{10} - \frac{1}{3}$

6. $\frac{3}{4} - \frac{2}{5}$

Problem Solving **REAL WORLD**

13. Kaylin mixed two liquids for a science experiment. One container held $\frac{7}{8}$ cup and the other held $\frac{9}{10}$ cup. What is the total amount of the mixture?

14. Henry bought $\frac{1}{4}$ pound of screws and $\frac{2}{5}$ pound of nails to build a skateboard ramp. What is the total weight of the screws and nails?
