Adding Fractions with Unlike Denominators

Danisha ate $\frac{2}{3}$ cup of yogurt at breakfast. She ate $\frac{1}{4}$ cup of yogurt at lunch. How much yogurt did she eat today?

You can add fractions with unlike denominators.

Step 1: Find the least common denominator of the two fractions.	**Step 2:** Once you have equivalent fractions with the same denominator, add the numerators.	**Step 3:** Place the sum over the common denominator and simplify your fraction if possible.
multiples of 3: 3, 6, 9, 12, 15 **multiples of 4:** 4, 8, 12, 16, 20 $\frac{2}{3} = \frac{8}{12}$ and $\frac{1}{4} = \frac{3}{12}$	8 + 3 = 11 So, $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$.	Danisha ate $\frac{11}{12}$ cup of yogurt today.

For **1** through **5**, find each sum. Simplify if possible.

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

2.
$$\begin{array}{r} \frac{2}{9} \\ + \frac{2}{6} \\ \hline \end{array}$$

3.
$$\begin{array}{r} \frac{3}{8} \\ + \frac{3}{12} \\ \hline \end{array}$$

4. $\frac{1}{4} + \frac{1}{6} + \frac{3}{4} =$

5. $\frac{2}{9} + \frac{1}{9} + \frac{1}{6} =$

6. Kevin and some friends baked different loaves of bread and cut them into different numbers of slices. They ate $\frac{1}{4}$ of one loaf, $\frac{1}{4}$ of another, $\frac{5}{12}$ of another, and $\frac{1}{12}$ of another. Did they eat the equivalent of a whole loaf?

_____

7. Cathy wakes up at 7:00 A.M. each morning. She spends $\frac{1}{10}$ hour making her bed, $\frac{1}{5}$ hour eating breakfast, and $\frac{1}{2}$ hour getting ready for school. How long does Cathy spend doing these things each morning?

_____