# MY Homework

## Lesson 7
### Subtract Unlike Fractions

## Homework Helper  eHelp

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Find $\dfrac{2}{5} - \dfrac{1}{10}$.

**Estimate**  Use benchmark fractions.

$$\frac{2}{5} - \frac{1}{10} \approx \frac{1}{2} - 0 = \frac{1}{2}$$

Subtract $\dfrac{2}{5} - \dfrac{1}{10}$.

Write equivalent, like fractions using the least common denominator, LCD. The LCD of $\dfrac{2}{5}$ and $\dfrac{1}{10}$ is 10.

$$\frac{2}{5} - \frac{1}{10} = \frac{2 \times 2}{5 \times 2} - \frac{1}{10} \qquad \text{Write equivalent fractions using the LCD.}$$

$$= \frac{4}{10} - \frac{1}{10} \qquad \text{Multiply.}$$

$$= \frac{4 - 1}{10}, \text{ or } \frac{3}{10} \qquad \text{Subtract like fractions.}$$

So, $\dfrac{2}{5} - \dfrac{1}{10} = \dfrac{3}{10}$.

**Check for Reasonableness**  Compare to your estimate. $\dfrac{3}{10} \approx \dfrac{1}{2}$

## Practice

**Subtract. Write each in simplest form.**

**1.** $\dfrac{1}{2} - \dfrac{1}{4} = $ _____

**2.** $\dfrac{7}{8} - \dfrac{1}{4} = $ _____

**3.** $\dfrac{7}{12} - \dfrac{1}{6} = $ _____

## Problem Solving

**4.** The average rainfall in April and October for Springfield is shown in the table below. How much more rain falls on average in April than in October?

| Average Rainfall for Springfield | |
|---|---|
| **Month** | **Rainfall (in.)** |
| April | $\frac{11}{16}$ |
| October | $\frac{3}{8}$ |

_____

**5.** Trisha helped clean up her neighborhood by picking up plastic. She collected $\frac{3}{4}$ pound of plastic the first day and $\frac{1}{6}$ pound of plastic the second day. How much more trash did she collect the first day than the second day?

_____

**6.** Wyatt is hiking a trail that is $\frac{11}{12}$ mile long. After hiking $\frac{1}{4}$ mile, he stops for water. How much farther must he hike to finish the trail?

_____

My Work!

## Test Practice

**7.** The table shows the distance each student ran on Wednesday. How much farther did Joey run than Steve?

| Student | Distance (mi) |
|---|---|
| Steve | $\frac{1}{6}$ |
| Charlie | $\frac{1}{4}$ |
| Joey | $\frac{2}{3}$ |

Ⓐ $\frac{1}{12}$ mile     Ⓒ $\frac{1}{2}$ mile

Ⓑ $\frac{5}{12}$ mile     Ⓓ $\frac{5}{6}$ mile