

**Math 105 Skill Builder #F - 11**  
**Subtracting Fractions with the Same Denominator – No Simplification Required**

**Step 1** Subtract the numerators.

**Step 2** Write the difference over the common denominator.

For example,

$$\frac{8}{10} - \frac{7}{10} = \frac{8-7}{10} \quad \text{Subtract the numerators}$$

$$= \frac{1}{10} \quad \text{Retain the common denominator.}$$

The difference is already in lowest terms.

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**Examples:**

<b>Subtracting Fractions</b>
$\frac{16}{25} - \frac{7}{25} = \frac{16-7}{25} = \frac{9}{25}$
$\frac{5}{8} - \frac{2}{8} = \frac{5-2}{8} = \frac{3}{8}$
$\frac{13}{55} - \frac{6}{55} = \frac{13-6}{55} = \frac{7}{55}$

**Math 105 Skill Builder #F - 11****Subtracting Fractions with the Same Denominator – No Simplification Required**

Perform the indicated operation:

1) $\frac{23}{51} - \frac{14}{51} =$
2) $\frac{6}{7} - \frac{2}{7} =$
3) $\frac{7}{18} - \frac{6}{18} =$
4) $\frac{22}{29} - \frac{10}{29} =$
5) $\frac{17}{38} - \frac{4}{38} =$
6) $\frac{9}{23} - \frac{1}{23} =$

**Math 105 Skill Builder #F - 11**  
**Subtracting Fractions with the Same Denominator – No Simplification**  
**Required**

Answers:

1)  $\frac{9}{51}$

2)  $\frac{4}{7}$

3)  $\frac{1}{18}$

4)  $\frac{12}{29}$

5)  $\frac{13}{38}$

6)  $\frac{8}{23}$

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