

**Math 105 Skill Builder #F - 12**  
**Subtracting Fractions with the Same Denominator – Simplification**  
**Required**

**Step 1** Subtract the numerators.

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

For example,

$$\frac{13}{22} - \frac{1}{22} = \frac{13-1}{22} \quad \text{Subtract the numerators}$$

$$= \frac{12}{22} \quad \text{Retain the common denominator.}$$

$$= \frac{6}{11} \quad \text{Divide 12 and 22 by 2.}$$

**Examples:**

<b>Subtracting Fractions</b>
$\frac{7}{25} - \frac{2}{25} = \frac{7-2}{25} = \frac{5}{25} = \frac{1}{5}$
$\frac{11}{28} - \frac{5}{28} = \frac{11-5}{28} = \frac{6}{28} = \frac{3}{14}$
$\frac{14}{36} - \frac{6}{36} = \frac{14-6}{36} = \frac{8}{36} = \frac{2}{9}$

**Math 105 Skill Builder #F - 12**  
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**Required**

Perform the indicated operation:

1) $\frac{24}{50} - \frac{14}{50} =$
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2) $\frac{13}{32} - \frac{1}{32} =$
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3) $\frac{15}{16} - \frac{7}{16} =$
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4) $\frac{43}{44} - \frac{3}{44} =$
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5) $\frac{7}{9} - \frac{4}{9} =$
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6) $\frac{25}{30} - \frac{5}{30} =$
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**Required**

Answers:

1)  $\frac{1}{5}$

2)  $\frac{3}{8}$

3)  $\frac{1}{2}$

4)  $\frac{10}{11}$

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

6)  $\frac{2}{3}$

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