

Do Now

Convert the following decimals into fractions. Write your fractions in lowest terms.

1) -0.25 $\frac{-25}{100} \div 25$ $\frac{-1}{4}$	2) 1.03 $\frac{103}{100}$	3) -6.125 $\frac{-6125}{1000} \div 125$ $-\frac{61}{80}$
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Convert the following fractions into decimals using long division.

4) $-\frac{4}{9}$ $9 \overline{) 4.00}$ $\underline{-36}$ 40 $\underline{-36}$ 4 $-\overline{.4}$	5) $8\frac{3}{4}$ $4 \overline{) 3.60}$ $\underline{28}$ 80 $\underline{80}$ 0 8.75	6) $-2\frac{7}{8}$ $8 \overline{) 7.800}$ $\underline{-64}$ 1400 $\underline{-1280}$ 1200 $\underline{-1120}$ 80 $\underline{-80}$ 0 -2.875
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Lesson #13 - Adding and Subtracting Fractions with Like Denominators

We use the same rules for adding and subtracting integers as we use for adding and subtracting fractions.

Example 1) Evaluate the following:

A) $3 + (-2)$ 1	B) $\frac{3}{4} + (-\frac{2}{4})$ $\frac{1}{4}$
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Example 2) Evaluate the following:

A) $-6 + (-3)$ -9	B) $-\frac{6}{15} + (-\frac{3}{15})$ $-\frac{9}{15} \div 3$ $-\frac{3}{5}$
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Now, You Try! Add the following fractions. Write your answer in simplest form.

3) $\frac{5}{9} + \frac{7}{9}$ $\frac{12}{9}$ $9 \overline{) 12}$ $\underline{-9}$ 3 $\frac{12}{9} = \frac{4}{3}$	4) $-\frac{5}{6} + \frac{1}{6}$ $-\frac{4}{6} \div 2$ $-\frac{2}{3}$	5) $-\frac{1}{6} + (-\frac{5}{6})$ $-\frac{6}{6} = -1$
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Subtracting fractions also works the same way as subtracting integers.

****REMEMBER THE RULE FOR SUBTRACTION: Keep, change, change ****

Example 6) Evaluate the following:

A) $-8 - 7$ $-8 - (-7) = -15$	B) $-\frac{8}{9} - \frac{7}{9}$ $-\frac{8}{9} + (-\frac{7}{9})$ $-\frac{15}{9}$ $9 \overline{) 15}$ $\underline{-9}$ 6 $6 \div 3$ $9 \div 3$ $\frac{15}{9} = \frac{5}{3}$
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Now, You Try! Subtract the following fractions. Write your answer in simplest form.

7) $\frac{3}{4} - (-\frac{1}{4})$ $\frac{3}{4} + \frac{1}{4} = \frac{4}{4} = 1$	8) $-\frac{7}{13} - \frac{3}{13}$ $-\frac{7}{13} + (-\frac{3}{13}) = -\frac{10}{13}$	9) $-\frac{4}{7} - (-\frac{2}{7})$ $-\frac{4}{7} + \frac{2}{7} = -\frac{2}{7}$
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Example 10) Add the following:

$5\frac{7}{9} + 8\frac{4}{9}$
 $\frac{52}{9} + \frac{76}{9} = \frac{128}{9}$
 $9 \overline{) 128}$
 $\underline{-9}$
 38
 $38 \div 2$
 $\frac{128}{9} = 14\frac{2}{9}$

Example 11) Jasmine is $60\frac{1}{4}$ inches tall. Amber is $58\frac{3}{4}$ inches tall. How much taller is Jasmine than amber?

$\frac{241}{4} - \frac{235}{4} = \frac{6}{4}$
 $4 \overline{) 6}$
 $\underline{-4}$
 2
 $\frac{6}{4} = \frac{3}{2}$

