Name_____ Date _____

Mr. Tallman Math 7-8A

Do Now

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

1) -0.25	2) 1.03	3) -6.125

Convert the following fractions into decimals using long division.

4) $-\frac{4}{9}$	5) $8\frac{3}{4}$	6) $-2\frac{7}{8}$

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) $3 + (-2)$	B) $\frac{3}{4} + \left(-\frac{2}{4}\right)$

Example 2) Evaluate the following:

A) $-6 + (-3)$	B) $-\frac{6}{15} + \left(-\frac{3}{15}\right)$

Now, You Try! Add the following fractions. Write your answer in simplest form.

3) $\frac{5}{9}+\frac{7}{9}$	4) $-\frac{5}{6}+\frac{1}{6}$	5) $-\frac{1}{6}+\left(-\frac{5}{6}\right)$

Subtracting fractions also works the same way as subtracting integers.

REMEMBER THE RULE FOR SUBTRACTION: _____

Example 6) Evaluate the following:

A) $-8-7$	B) $-\frac{8}{9}-\frac{7}{9}$

Now, You Try! Subtract the following fractions. Write your answer in simplest form.

7) $\frac{3}{4}-\left(-\frac{1}{4}\right)$	8) $-\frac{7}{13}-\frac{3}{13}$	9) $-\frac{4}{7}-\left(-\frac{2}{7}\right)$

Example 10) Add the following: $5\frac{7}{9}+8\frac{4}{9}$

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?

Now, You Try! Add or subtract. Write your answer in simplest form.

1. $\frac{2}{5} + \frac{2}{5}$	2. $\frac{1}{10} + \frac{5}{10}$	3. $-\frac{3}{4} + \frac{1}{4}$
4. $\frac{1}{6} + \left(-\frac{5}{6}\right)$	5. $-\frac{3}{8} + \frac{7}{8}$	6. $\frac{5}{11} - \left(-\frac{4}{11}\right)$
7. $-\frac{4}{5} - \frac{3}{5}$	8. $-\frac{9}{13} + \left(-\frac{6}{13}\right)$	9. $2\frac{1}{4} + 1\frac{1}{4}$
10. $3\frac{5}{7} + 2\frac{3}{7}$	11. $3\frac{5}{8} + 1\frac{3}{8}$	12. $8 - 6\frac{1}{6}$
13. $-1\frac{3}{7} - \left(-2\frac{2}{7}\right)$	14. $4\frac{3}{5} - 2\frac{4}{5}$	15. $\frac{4}{15} - \frac{7}{15}$

16. Joe is diving $2\frac{1}{2}$ feet below sea level. He then decides to descend $7\frac{1}{2}$ more feet. How many feet below sea level is he?