Name _____ Date _____

Estimating Sums and Differences with Fractions- Guided Lesson Explanation

Explanation#1

To round, a mixed number to the nearest whole number, look at the fraction part. If the fraction is less than 1/2, round down. If the fraction is greater than or equal to 1/2, round up.

$$7\frac{1}{6} - 2\frac{1}{4}$$
$$\downarrow \qquad \downarrow$$
$$7 \quad - 2$$

Now subtract:

$$7 - 2 = 5$$

So, the answer is 5.

Explanation#2

To round a mixed number to the nearest whole number, look at the fraction part. If the fraction is less than 1/2, round down. If the fraction is greater than or equal to 1/2, round up.

$$4\frac{4}{6} + 9\frac{6}{8}$$
$$\downarrow \qquad \downarrow$$
$$5 \quad + 10$$

Now add:-

$$5 + 10 = 15$$

So, the answer is 15.

Explanation#3

We have to follow the 3 rules while calculating sum or differences of fractions. These are:-

If the numerator is much smaller than the denominator, than the result will be 0.

Name _____ Date _____

If numerator is about one half of the denominator, than result will be $\frac{1}{2}$.

If numerator about denominator is close to each other than result will be 1.

Here $\frac{6}{7}$ is following the 3rd rule so the result of this will be 1 and

$\frac{3}{7}$ is following the 3rd rule so the result of this will be $\frac{1}{2}$.

$$1 - \frac{1}{2} = \frac{1}{2}$$

So, the answer is $\frac{1}{2}$.