

Name: _____

CONVERTING IMPROPER FRACTIONS TO MIXED NUMBERS DIRECTED LEARNING ACTIVITY

Objective: Convert an improper fraction to a mixed number.

Activity: You will use a strategy for converting an improper fraction to a mixed number and then practice that method.

Example 1. Convert $\frac{59}{9}$ to a mixed number.

Steps to convert an improper fraction to a mixed number using division:

1. Use long division to divide the numerator by the denominator.

$$\begin{array}{r} 6 \leftarrow \text{quotient} \\ 9 \overline{)59} \\ \underline{-54} \\ 5 \leftarrow \text{remainder} \end{array}$$

The quotient is _____ and the remainder is _____.

2. The quotient is the whole number part of the mixed number.

The remainder is the numerator of the proper fraction part of the mixed number.

The original denominator is the denominator of the proper fraction part of the mixed number.

It looks like this: quotient $\frac{\text{remainder}}{\text{original denominator}}$

When we convert $\frac{59}{9}$, the mixed number result is _____.

Did you get $6\frac{5}{9}$? Great!!

If you did not get this, check with the tutor to determine where you may have made an error.

Now try one on your own!

Example 2. Convert $\frac{18}{8}$ to a mixed number.

Did you get $2\frac{2}{8} = 2\frac{1}{4}$? (Remember, to reduce $\frac{2}{8}$ to $\frac{1}{4}$.)

After you go over the previous problems with a tutor, try the following, then check with a tutor to make sure you did them correctly.

1. $\frac{25}{6}$

2. $\frac{39}{4}$

3. $\frac{37}{8}$

4. $\frac{67}{12}$

5. $\frac{33}{2}$

6. $\frac{19}{4}$

For tutor use: Please check the appropriate box.

- Student has completed worksheet but may need further assistance. Recommend a follow-up with instructor.
- Student has mastered topic.