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## Reteaching Page

### 4.7 Mixed Numbers and Improper Fractions

## Improper Fractions:

A fraction with a numerator that is greater that the denominator is called an improper fraction.
$7 / 5,4 / 3,9 / 2$ are all greater than 1 and improper fractions. Notice that $3 / 3=1 \mathrm{so}^{4} / 3$ is greater than 1 . To simplify an improper fraction, divide the numerator by the denominator and write the remainder as a fraction.

$$
\begin{aligned}
& 4 / 3=4 \div 3=1^{1} / 3 \\
& 7 / 2=7 \div 2=3^{1 / 2}
\end{aligned}
$$

Turn each of the following improper fractions into mixed numbers by dividing.
$23 / 4=$ $\qquad$
${ }^{29} / 9=$ $\qquad$
$39 / 7=$ $\qquad$
$55 / 6=$ $\qquad$
$41 / 6=$ $\qquad$
$25 / 6=$ $\qquad$
${ }^{37} / 8=$ $\qquad$
${ }^{27} / 4=$ $\qquad$
${ }^{47} / 6=$
$\qquad$
${ }^{31} / 4=$ $\qquad$
${ }^{68} / 7=$ $\qquad$
${ }^{59} /{ }_{7}=$ $\qquad$

## Mixed Numbers:

You will need to turn mixed numbers into improper fractions when you multiply or divide fractions.
To create an improper fraction from a mixed number, you multiply the whole number by the denominator, add the numerator and write it as a fraction over the denominator.
$62 / 5=6 * 5+2=32=$ the improper fraction $32 / 5$.
$5 \frac{3}{8}=5 * 8+3=43=$ the improper fraction ${ }^{43} / 8$.
$3^{1} / 6=3 * 6+1=19=$ the improper fraction ${ }^{19} / 6$.

Notice that the denominator
does not change.

Turn each of the following improper fractions into mixed numbers.
$5^{3 / 4}=$ $\qquad$
$3{ }^{2} / 9=$ $\qquad$
$9^{1 / 6}=$ $\qquad$
$4^{1 / 6}=$ $\qquad$
$5^{4} / 7=$ $\qquad$
$4 \frac{5}{8}=$ $\qquad$
$6 \frac{5}{6}=$ $\qquad$
$6 \frac{3}{4}=$ $\qquad$
$75 / 6=$ $\qquad$
$7^{3 / 4}=$ $\qquad$
$95 / 7=$ $\qquad$
$8^{3} / 7=$ $\qquad$

