Name\_\_\_\_\_

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

$${}^{4}/_{3} = 4 \div 3 = 1 {}^{1}/_{3}$$
  
 ${}^{7}/_{2} = 7 \div 2 = 3 {}^{1}/_{2}$ 

Turn each of the following improper fractions into mixed numbers by dividing.

<sup>23</sup> / <sub>4</sub> =	<sup>29</sup> / <sub>9</sub> =	<sup>39</sup> / <sub>7</sub> =
<sup>55</sup> / <sub>6</sub> =	<sup>25</sup> / <sub>6</sub> =	<sup>37</sup> / <sub>8</sub> =
<sup>41</sup> / <sub>6</sub> =	<sup>27</sup> / <sub>4</sub> =	<sup>47</sup> / <sub>6</sub> =
<sup>31</sup> / <sub>4</sub> =	<sup>68</sup> / <sub>7</sub> =	<sup>59</sup> / <sub>7</sub> =

## **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.

$6^{2}/_{5} = 6 * 5 + 2 = 32 =$ the improper fraction $^{32}/_{5}$ .	
$5^{3}/_{8} = 5 * 8 + 3 = 43 =$ the improper fraction $^{43}/_{8}$ .	Notice that the denominator
$3^{1}/_{6} = 3 * 6 + 1 = 19 =$ the improper fraction $^{19}/_{6}$ .	does not change.

## Turn each of the following improper fractions into mixed numbers.



Freely reproducible for "non profit" educational purposes - visit http://www.math6.org/legal.htm for more details concerning "non profit".