Name: Key

Proper Fractions, Mixed Numbers, Improper Fractions
Guided Notes - Answer Key

Proper Fraction	Mixed Number	Improper Fraction
Numerator is **smaller** than the denominator	Whole number and **proper** fraction	Numerator is **bigger** than the denominator
$\frac{2}{3}$ $\frac{1}{2}$ $\frac{5}{12}$ $\frac{1}{7}$	$1\frac{1}{2}$ $3\frac{2}{9}$ $8\frac{3}{4}$	$\frac{5}{4}$ $\frac{8}{2}$ $\frac{11}{7}$ $\frac{3}{1}$

Mixed Numbers to Improper Fractions:

- **Multiply** the denominator of your fraction by the **whole** number.
- **Add** the numerator to your product from first step. This is your new numerator. The denominator stays the **same**.

Mixed Number	Step 1	Step 2	Improper Fraction
$1\frac{3}{5}$	5 x 1 = 5	5 + 3 = 8	$\frac{8}{5}$
$2\frac{1}{4}$	4 x 2 = 8	8 + 1 = 9	$\frac{9}{4}$

Improper Fractions to Mixed Numbers:

- **Divide** the numerator by the denominator.
- The whole number quotient you get from dividing is the whole number part of the mixed number. The **remainder** is you new numerator. The denominator stays the same.
- **Simplify** the proper fraction, if needed.

Improper Fraction	Step 1	Step 2	Step 3	Mixed Number
$\frac{34}{8}$	$8\overline{)34}$ R 2	$4\frac{2}{8}$	$\frac{2}{8} \div 2 = \frac{1}{4}$	$4\frac{1}{4}$
$\frac{5}{3}$	$3\overline{)5}$ R 2	$1\frac{2}{3}$	Proper fraction is in simplest form	$1\frac{2}{3}$

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