Name/Nombre: _____ Date/Fecha: _____

FCTG

Finding the reciprocal

* Rule 1: To find the reciprocal of a fraction, _____ the _____ and _____.

Example: Find the reciprocal of fractions.

Fraction	Reciprocal
$\frac{4}{5}$	$\frac{\square}{\square}$
$\frac{1}{3}$	$\frac{\square}{\square}$
$\frac{13}{9}$	$\frac{\square}{\square}$

* Rule 2: To find the reciprocal of mixed numbers,
  - ❖ Step 1: Convert the _____ to a _____.
  - ❖ Step 2: _____ the _____ and _____ from the improper fraction.

Example: Find the reciprocal of mixed numbers.

Mixed number	Improper fraction	Reciprocal
$7\frac{1}{2}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
$4\frac{2}{3}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
$5\frac{3}{7}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$

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DO NOW!

1. Write the reciprocal of each fraction.

(1) Fraction = $\frac{3}{8}$, reciprocal = _____$\frac{\square}{\square}$

(2) Fraction = $\frac{8}{12}$, reciprocal = $\frac{\square}{\square}$_____.

(3) Fraction = $\frac{1}{5}$, reciprocal = _____$\frac{\square}{\square}$.

(4) Fraction = $\frac{6}{15}$, reciprocal = $\frac{\square}{\square}$_____.

(5) Fraction = $\frac{3}{4}$, reciprocal = _____$\frac{\square}{\square}$.

(6) Fraction = $\frac{20}{35}$, reciprocal = $\frac{\square}{\square}$_____.

(7) Fraction = $\frac{2}{7}$, reciprocal = _____$\frac{\square}{\square}$.

(8) Fraction = $\frac{7}{11}$, reciprocal = _$\frac{\square}{\square}$_____.

(9) Fraction = $\frac{8}{19}$, reciprocal = _____$\frac{\square}{\square}$.

(10) Fraction = $\frac{12}{32}$, reciprocal = _$\frac{\square}{\square}$_____.

2. Write the reciprocal of each mixed number.

(1) Fraction =1 $\frac{1}{3}$, reciprocal = .$\frac{\square}{\square}$__$\frac{\square}{\square}$

(2) Fraction = $2\frac{3}{7}$, reciprocal = ___$\frac{\square}{\square}$__$\frac{\square}{\square}$

(3) Fraction = $3\frac{4}{5}$, reciprocal = $\frac{\square}{\square}$_$\frac{\square}{\square}$_.

(4) Fraction = $7\frac{2}{15}$, reciprocal = _$\frac{\square}{\square}$__$\frac{\square}{\square}$

(5) Fraction = $4\frac{3}{4}$, reciprocal = $\frac{\square}{\square}$__$\frac{\square}{\square}$_.

(6) Fraction = $2\frac{7}{8}$, reciprocal = ___$\frac{\square}{\square}$__$\frac{\square}{\square}$