

Name/Nombre: _____ Date/Fecha: _____

ECTG

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 = $\frac{\square}{\square}$

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

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

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

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

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