Name: _____

Finding the Reciprocal

Parts of a Fraction

$\dfrac{3}{5}$ numerator
denominator

To find the reciprocal of a fraction, switch the numerator and denominator of the fraction.

Fraction   **Reciprocal**

$\dfrac{3}{5}$ ⟶ $\dfrac{5}{3}$

Find the reciprocals of the fractions below and write them in the space provided.

a. $\dfrac{5}{8}$ _____
fraction   reciprocal
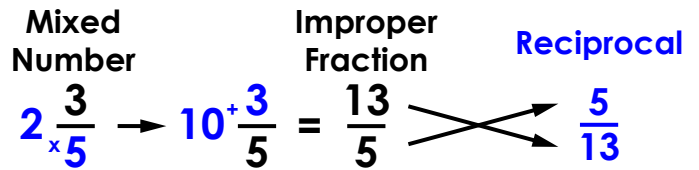
b. $\dfrac{1}{2}$ _____
fraction   reciprocal

c. $\dfrac{7}{16}$ _____
fraction   reciprocal

d. $\dfrac{2}{3}$ _____
fraction   reciprocal

e. $\dfrac{3}{4}$ _____
fraction   reciprocal

f. $\dfrac{3}{10}$ _____
fraction   reciprocal

To find the reciprocal of a mixed number, multiply the whole number by the denominator. Add the product to the numerator to make an improper fraction. Then, switch the numerator and denominator.

Mixed Number   **Improper Fraction**   **Reciprocal**

$2\dfrac{3}{\times 5}$ ⟶ $\dfrac{10^+3}{5}$ = $\dfrac{13}{5}$ ⟶ $\dfrac{5}{13}$

Find the improper fractions and reciprocals of the mixed numbers below and write them in the space provided.

g. $3\dfrac{5}{8}$ = _____ _____
mixed number   improper fraction   reciprocal

h. $2\dfrac{7}{10}$ = _____ _____
mixed number   improper fraction   reciprocal

i. $1\dfrac{5}{6}$ = _____ _____
mixed number   improper fraction   reciprocal

j. $5\dfrac{4}{5}$ = _____ _____
mixed number   improper fraction   reciprocal

k. $2\dfrac{3}{15}$ = _____ _____
mixed number   improper fraction   reciprocal

l. $4\dfrac{5}{12}$ = _____ _____
mixed number   improper fraction   reciprocal

ANSWER KEY

Finding the Reciprocal

Parts of a Fraction	To find the reciprocal of a fraction, switch the numerator and denominator of the fraction.	**Fraction** **Reciprocal**
$\dfrac{3}{5}$ numerator denominator		$\dfrac{3}{5} \times \dfrac{5}{3}$

Find the reciprocals of the fractions below and write them in the space provided.

a. $\dfrac{5}{8}$ $\dfrac{8}{5}$
fraction   reciprocal

b. $\dfrac{1}{2}$ $\dfrac{2}{1}$ or 2
fraction   reciprocal

c. $\dfrac{7}{16}$ $\dfrac{16}{7}$
fraction   reciprocal

d. $\dfrac{2}{3}$ $\dfrac{3}{2}$
fraction   reciprocal

e. $\dfrac{3}{4}$ $\dfrac{4}{3}$
fraction   reciprocal

f. $\dfrac{3}{10}$ $\dfrac{10}{3}$
fraction   reciprocal

To find the reciprocal of a mixed number, multiply the whole number by the denominator. Add the product to the numerator to make an improper fraction. Then, switch the numerator and denominator.	**Mixed Number**	**Improper Fraction**	**Reciprocal**
	$2\dfrac{3}{\times 5} \rightarrow 10\dfrac{+3}{5} = \dfrac{13}{5}$		$\dfrac{5}{13}$

Find the improper fractions and reciprocals of the mixed numbers below and write them in the space provided.

g. $3\dfrac{5}{8}$ = $\dfrac{29}{8}$ $\dfrac{8}{29}$
mixed number   improper fraction   reciprocal

h. $2\dfrac{7}{10}$ = $\dfrac{27}{10}$ $\dfrac{10}{27}$
mixed number   improper fraction   reciprocal

i. $1\dfrac{5}{6}$ = $\dfrac{11}{6}$ $\dfrac{6}{11}$
mixed number   improper fraction   reciprocal

j. $5\dfrac{4}{5}$ = $\dfrac{29}{5}$ $\dfrac{5}{29}$
mixed number   improper fraction   reciprocal

k. $2\dfrac{3}{15}$ = $\dfrac{33}{15}$ $\dfrac{15}{33}$
mixed number   improper fraction   reciprocal

l. $4\dfrac{5}{12}$ = $\dfrac{53}{12}$ $\dfrac{12}{53}$
mixed number   improper fraction   reciprocal