Beiprocals

For Learning to Happen!



- Keep your homework out to use as scratch paper.
 - Remove all other thoughts from your mind.
 - •Pay close attention to this lesson.
 - •Try all of the examples.
 - •Ignore all other distractions.

Change this improper fraction to a mixed number.

$$\frac{7}{3} = 3 \frac{2 r 1 - 2 \frac{1}{3}}{\frac{2}{3}}$$

Put your remainder over the denominator.

Change this improper fraction to a mixed number.

$$\frac{9}{2} = \frac{2 \cdot 9}{2 \cdot 8}$$

Put your remainder over the denominator.

Two numbers are reciprocals if their product is one.

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Example:
$$\frac{3}{3} \times \frac{4}{3} = \frac{1}{1} = \frac{1}{1}$$

Hint to find a reciprocal:

JUST FLIP THE FRACTION OVER!

Write the reciprocal of $\frac{2}{3}$.

To write the reciprocal of $\frac{2}{3}$, switch the numerator and denominator.

$$\frac{2}{3}$$
 $\frac{3}{2}$

CHECK
$$\frac{2}{3} \cdot \frac{3}{2} = \frac{6}{6} = 1$$

Write the reciprocal of the number.

1.
$$\frac{5}{6}$$

ANSWER
$$\frac{6}{5}$$

2.
$$\frac{4}{11}$$

ANSWER
$$\frac{11}{4}$$

$$\frac{11}{4}$$

3.
$$\frac{2}{7}$$

ANSWER
$$\frac{7}{2}$$

4.
$$\frac{8}{5}$$

ANSWER
$$\frac{5}{8}$$

Write the reciprocal of the number.

5.
$$\frac{6}{5}$$

6.
$$\frac{8}{9}$$

7.
$$\frac{19}{17}$$

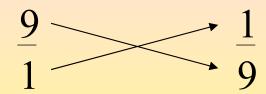
8.
$$\frac{3}{20}$$

$$\frac{20}{3}$$

Write the reciprocal of 9.

$$9 = \frac{9}{1}$$

Rewrite whole number as a fraction.



Switch numerator and denominator.

CHECK
$$9 \cdot \frac{1}{9} = \frac{9}{9} = 1$$

Write the reciprocal of the number.

ANSWER
$$\frac{1}{2}$$

10. 7 ANSWER
$$\frac{1}{7}$$

11. 13 ANSWER
$$\frac{1}{13}$$

ANSWER
$$\frac{1}{1}$$
 or 1

Change this mixed number to an improper fraction

Multiply the whole number times the denominator.

Add your answer to the numerator.

Put your new number over the denominator.

$$4^{+1}_{-2} = \frac{9}{2}$$

Change this mixed number to an improper fraction

Multiply the whole number times the denominator.

Add your answer to the numerator.

Put your new number over the denominator.

$$6 + 2 = 20$$
 $\times 3$

To write a reciprocal of a mixed number, you must change your mixed number to an improper fraction first.

$$8_{x}^{+1} = \frac{17}{2}$$

Then write the reciprocal of your improper fraction.

$$\frac{17}{2} \longrightarrow \frac{2}{17}$$

Write the reciprocal of $2\frac{3}{4}$.

$$2\frac{3}{4} = \frac{11}{4}$$

 $\frac{11}{4} \longrightarrow \frac{4}{11}$

Rewrite mixed number as an improper fraction.

Switch numerator and denominator.

CHECK
$$\frac{11}{4} \cdot \frac{4}{11} = \frac{44}{44} = 1$$

Write the reciprocal of the number.

1.
$$1\frac{7}{8}$$

$$\frac{8}{15}$$

2.
$$4\frac{2}{9}$$

ANSWER
$$\frac{9}{38}$$

$$\frac{9}{38}$$

3.
$$10\frac{1}{5}$$

ANSWER
$$\frac{5}{51}$$

Hint: Change the mixed number to an improper fraction 1st

Write the reciprocal of the number.

4.
$$3\frac{5}{6}$$

ANSWER
$$\frac{6}{23}$$

$$\frac{6}{23}$$

5.
$$7\frac{3}{4}$$

ANSWER
$$\frac{4}{31}$$

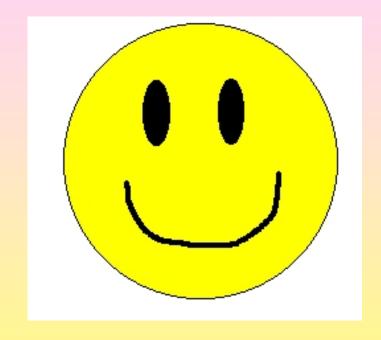
6.
$$12\frac{2}{3}$$

$$\frac{3}{38}$$

7.
$$8\frac{9}{10}$$

THE END!

Take out your study guide.



#18 Reciprocals

Two numbers are reciprocals if their product is one.

To find the reciprocal just flip the fraction over.

Change your mixed number to an improper fraction to find the reciprocal.

$$5_{\mathbf{x}}^{+2} = \frac{17}{3} \longrightarrow \frac{3}{17}$$

Extras

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Keciprocals

Two numbers are reciprocals if their product is one.

Example:
$$\frac{2}{5} \times \frac{5}{2} = \frac{10}{10} = \frac{1}{10}$$

To find the reciprocal just flip the fraction over.

To write a reciprocal of a mixed number, you must change your mixed number to an improper fraction first.

$$5_{x}^{+2} = \frac{17}{3}$$



Then write the reciprocal of your improper fraction.

$$\frac{17}{3} \longrightarrow \frac{3}{17}$$