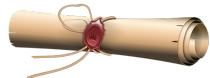


- Fractions and Their Reciprocals
- A Fraction of a Number
- Using Reciprocals to Solve Equations

Homeschool



Honor Roll

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Integrated Pre-Algebra and Geometry

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1. $\frac{x}{10} + 5 = 15$

2. $6x = 1.8$

3. $(\frac{10}{21})(\text{---}) = 1$

4. $\left(\frac{2}{3}\right)x = x$

I. Fractions and Their Reciprocals

The reciprocal is found by flipping a fraction .

(Swap the numerator and denominator)

$$\left(\frac{3}{52}\right)\left(\frac{\quad}{\quad}\right) = 1$$

A fraction multiplied by its reciprocal
will always _____

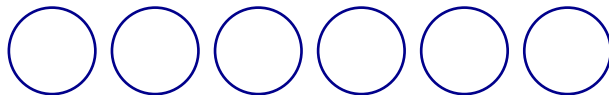
5. The reciprocal of $\frac{7}{9}$ is _____ because $\left(\frac{7}{9}\right)\left(\frac{\quad}{\quad}\right) = 1$

II. A Fraction Of A Number

To determine a fraction of a number:

1. Divide by the _____.
2. Multiply by the _____.

What is $\frac{5}{6}$ of 36?



III. Using Reciprocals to Solve Equations

What is the goal when solving an equation? _____

Solve and Check:

$$\frac{3}{4}x + 3 = 15$$

Solve and Check:

$$\frac{11}{6}x - 10 = 2$$

You may leave the answer as a fraction on the computer

Type $\frac{3}{4}$ as

7. *Solve and Check:*

$$\frac{3}{10}x + 7 = 13$$

8. *Solve and Check:*

$$\frac{12}{5}x - 8 = 52$$

9. *Solve and Check:*

$$\frac{5z}{2} + 3 = 6.5$$