

Vocabulary

Any two numbers with a product of 1 are called VECIPVOCALS

Complete the table below by finding the reciprocal of $\frac{2}{3}$. Use the guess, check, and revise strategy. The first one is done for you.

Number	Product	Reciprocal	
1/2	$\frac{1}{2} \times 2 = 1$	2	13
2/3	$\frac{2}{3} \times \frac{3}{2} = 1$	3 '	1

Describe the relationship between the numerator and the denominator of a number and its reciprocal.

switch places

Find Reciprocals

Dividing 3 by $\frac{1}{2}$ gives the same result as multiplying 3 by 2, which is the reciprocal of $\frac{1}{2}$. Any two numbers with a product of 1 are called reciprocals.

$$3 \div \frac{1}{2} = 6$$

$$3 \times 2 = 6$$

$$\text{same result}$$

Divide by a Fraction

Words - To divide a whole number by a fraction, multiply by its <u>Yellovolal</u>. Then, simplify if needed.

Numbers -
$$5 + \frac{2}{3} = \frac{5}{1} \times \frac{3}{2}$$

The division $5 \div 2/3$ is read as 5 divided by $\frac{1}{100} \times \frac{1}{100} \times \frac{1}{$ "two thirds" are in 5.

4.6 Divide Whole Numbers by Fractions (6.NS.1)

Guided Practice:

Find the reciprocal of each number.





Divide. Write in Simplest form.





$$2\left(+\frac{4}{5}\right)$$





7.) A neighborhood development that is 4 acres to be divided into 2/3 acre lots. How many lots can be

created?



 $\frac{2A}{1} \times \frac{3}{Z} = \frac{6}{1}$

Building on the Essential Question - Why does a whole number divided by a fraction less than one have a quotient greater than the whole number dividend?

you are dividing the whole number into smaller parts - so there will be more parts.

Rate Yourself - Circle the one that applies







Somewhat Clear

Not So