

Divide Fractions

Lesson 2-3

Name: _____

Date: _____

Class: _____

Key Vocabulary Level 2 Standard

Picture first, then the word, then a plain-language meaning. Say each word out loud.


12 dots

 $12 \div 3 = 4$

In $3/4 \div 1/2$, the dividend is $3/4$ — the total amount being split

Dividend

Write the definition:


 $12 \div 3 = 4$

In $3/4 \div 1/2$, the divisor is $1/2$ — the size of each group

Divisor


Write the definition:

$3/4 \rightarrow 4/3$
flip top and bottom

The reciprocal of $2/3$ is $3/2$. To divide by $2/3$, multiply by $3/2$.

Reciprocal

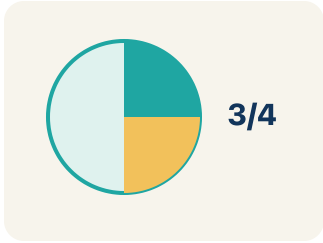
Write the definition:


 $12 \div 3 = 4$

In $3/4 \div 1/4 = 3$, the quotient is 3 — three $1/4$ -size pieces fit into $3/4$

Quotient

Write the definition:



$$8/12 \rightarrow \text{GCF is } 4 \rightarrow 8 \div 4 / 12 \div 4 = 2/3$$

Simplify

Write the definition:

Guided Notes

Level 2 Standard



WHAT WE'RE LEARNING TODAY

I can divide a fraction by a fraction by multiplying by the reciprocal and simplifying.



Fill in each blank as we go. Use the Word Bank to help you.



WORD BANK — FILL EACH BLANK WITH THE BEST WORD

Dividend

Divisor

Reciprocal

Quotient

Simplify



Tap any word to see what it means and a picture.

1

In $3/4 \div 1/2$, the fraction $3/4$ being divided is the .

2

In $3/4 \div 1/2$, the fraction $1/2$ we divide by is the .

3

To divide by $1/2$, I multiply by its , which is 2.

4

The answer to a division problem is the .

5

Writing a fraction in its smallest equal form, like $4/8 = 1/2$, is to

it.



Watch & Try — Worked Examples

See the notes in action: watch one worked all the way through, then try the next with the same steps.

 **I do – watch**

Follow each step as your teacher solves it.

Problem: What is the reciprocal of $\frac{3}{5}$?

- A. $\frac{5}{3}$
- B. $\frac{3}{5}$
- C. $\frac{5}{5}$
- D. $\frac{1}{3}$

Step 1 To find the reciprocal, flip the fraction.

Step 2 The reciprocal of $\frac{3}{5}$ is $\frac{5}{3}$.


 **Answer:** A. $\frac{5}{3}$

 **Try – put the steps in order**

Drag the cards (or use the ▲ ▼ buttons) to put the solution steps in the right order, then press **Check**.

The reciprocal of $\frac{3}{5}$ is $\frac{5}{3}$.

To find the reciprocal, flip the fraction.

 **We do – together**

Solve this one with your class using the same steps.

Problem: What is $\frac{1}{2} \div \frac{1}{4}$?

- A. 2
- B. $\frac{1}{8}$
- C. 4
- D. $\frac{1}{2}$

Step 1 _____

Step 2 _____

Answer: _____

 **You do — your turn**

Now try one on your own. Show every step.

Problem: What is $\frac{3}{4} \div \frac{1}{8}$?

- A. 6
- B. $\frac{3}{32}$
- C. $\frac{8}{3}$
- D. 24

Show your work:

Try It

Solve on your own. Check the answer key when you are done.

1. Lock 2 — The vault dial reads a fraction problem: What is $(2/3) \div (1/6)$ in simplest form?

- A. 4
- B. $1/9$
- C. $2/18$
- D. $9/2$

Show your work:

2. Lock 3 — Decode the keypad: What is $(3/4) \div (1/2)$ in simplest form?

- A. $3/2$
- B. $3/8$
- C. $8/3$
- D. $2/3$

Show your work:

Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

Is $3/4 \div 1/2$ the same as $1/2 \div 3/4$? Solve both and explain why or why not. What does this tell you about the order in division?

Sentence starter: $3/4 \div 1/2 = \underline{\quad}$ and $1/2 \div 3/4 = \underline{\quad}$. These are $\underline{\quad}$ because $\underline{\quad}$. This shows that division is $\underline{\quad}$.

Show your work:

Reflect — Exit Ticket

What is $4/5 \div 2/5$?

- A. 2
- B. $8/25$
- C. $2/5$
- D. $10/5$

Your answer:
