UNIT 2 · STANDARD 6.NS.1

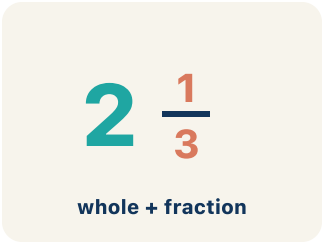
Divide Mixed Numbers

Lesson 2-4

Name: Type your name **Date:** Today's date **Class:** Class period

Key Vocabulary Level 2 Standard

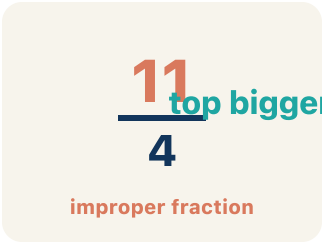
Picture first, then the word, then a plain-language meaning. Say each word out loud.



2 1/3 means 2 wholes and 1/3 more — picture 2 full circles and 1/3 of another

Mixed Number

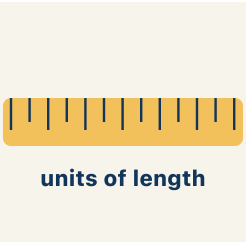
Write the definition:



7/3 is improper because 7 > 3. It equals 2 1/3 as a mixed number.

Improper Fraction

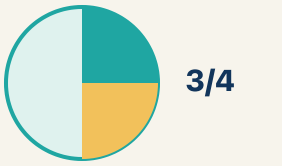
Write the definition:



2 1/3 → multiply 2 × 3 = 6, add 1 → 7/3. Same value, different form.

Convert

Write the definition:



8/6: GCF is 2 → 8÷2 / 6÷2 = 4/3 = 1 1/3

Simplify

Write the definition:

3/4 → 4/3

flip top and bottom

The reciprocal of 3/4 is 4/3. To divide by 3/4, multiply by 4/3.

Reciprocal

Write the definition:

Guided Notes Level 2 Standard

🎯 **WHAT WE'RE LEARNING TODAY**

I can divide mixed numbers by first changing them to improper fractions.

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

📚 **WORD BANK — FILL EACH BLANK WITH THE BEST WORD**

Mixed Number | Improper Fraction | Convert | Simplify | Reciprocal

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

1. A number with a whole number and a fraction, like 2 1/3, is a _____.

2. A fraction whose numerator is greater than or equal to its denominator, like 7/3, is an _____.

3. Changing a mixed number into an improper fraction is to _____ it.

4. Writing a fraction in its smallest equal form is to _____ it.

5. To divide by a fraction, I multiply by its _____.

🧱 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 1 1/2 ÷ 3/4?

A. 2

B. 1 1/8

C. 3/4

D. 9/8

Step 1 1 1/2 = 3/2.

Step 2 Then 3/2 ÷ 3/4 = 3/2 × 4/3 = 12/6 = 2.

✅ **Answer:** A. 2

🧩 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**.

Then 3/2 ÷ 3/4 = 3/2 × 4/3 = 12/6 = 2.

1 1/2 = 3/2.

🤝 We do — together

Solve this one with your class using the same steps.

Problem: Convert 3 2/5 to an improper fraction.

A. 17/5

B. 15/5

C. 6/5

D. 32/5

Step 1 _____

Step 2 _____

Answer: _____

✏️ **You do — your turn**

Now try one on your own. Show every step.

Problem: What is 2 1/4 ÷ 3/4?

A. 3

B. 1 1/2

C. 9/16

D. 2 1/3

Show your work:

Try It

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

1. Mission 2: A surveillance route is 3 miles long, split into 1 1/2-mile patrol sections. How many sections are on the route?

A. 2

B. 1 1/2

C. 4 1/2

D. 3

Show your work:

2. Mission 3: There are 7 1/2 feet of caution tape to seal a crime scene. Each doorway needs 2 1/2 feet. How many doorways can be sealed?

A. 3

B. 5

C. 2 1/2

D. 10

Show your work:

Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

A detective has a rope that is 5 1/4 feet long. She needs to cut it into pieces that are each 3/4 foot for tying evidence tags. How many pieces can she cut? Write the equation, show each step (convert, keep-change-flip, multiply, simplify), and verify your answer.

Sentence starter: First I convert 5 1/4 to ____. Then I use KCF: ____ × ____ = ____. The answer is ____ pieces. I can verify because ____ × 3/4 = 5 1/4.

Show your work:

Reflect — Exit Ticket

What is 2 2/3 ÷ 2/3?

A. 4

B. 2/3

C. 8/3

D. 1 7/9

Your answer: