

Compare Ratios

Lesson 3-5

Name: _____
Type your name

Date: _____
Today's date

Class: _____
Class period

Key Vocabulary Level 2 Standard

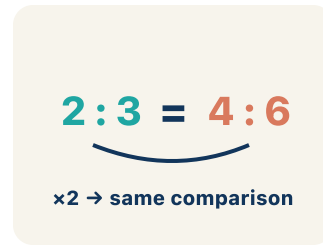
Picture first, then the word, then a plain-language meaning. Say each word out loud.



\$3 per 1 pound → unit rate is \$3/lb

Unit rate

Write the definition:



4:6 and 2:3 are equivalent (both simplify to 2:3)

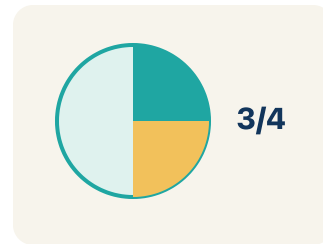
Equivalent ratio

Write the definition:

3:4 vs. 2:5 — which has more of the first ingredient per unit?

Compare

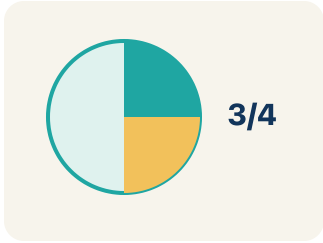
Write the definition:



8:12 → divide both by 4 → 2:3

Simplify

Write the definition:



To compare $3/5$ and $4/7$, use LCD 35: $21/35$ vs
 $20/35$

Common denominator

Write the definition:

Guided Notes Level 2 Standard



WHAT WE'RE LEARNING TODAY

I can compare ratios by finding unit rates or using equivalent ratios.



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



WORD BANK – FILL EACH BLANK WITH THE BEST WORD

Unit rate

Equivalent ratio

Compare

Simplify

Common denominator



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

1 A rate that tells the amount for exactly one unit, like 5 miles per 1 hour, is a

2 – Two ratios that mean the same thing.

3 To decide which ratio is greater or if they are equal is to them.

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

5 A denominator shared by two fractions so they can be compared is a

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: Chef A uses 2 cups of cheese for every 8 crackers. Chef B uses 3 cups of cheese for every 9 crackers. Who uses more cheese per cracker?

- A. Chef B
- B. Chef A
- C. They use the same amount
- D. Cannot determine

Step 1 Chef A: $2 \div 8 = 0.25$ cups per cracker.

Step 2 Chef B: $3 \div 9 \approx 0.33$ cups per cracker.

Step 3 Chef B uses more cheese per cracker.

 **Answer:** A. Chef B


 **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**.

Chef B uses more cheese per cracker.

Chef B: $3 \div 9 \approx 0.33$ cups per cracker.

Chef A: $2 \div 8 = 0.25$ cups per cracker.

 **We do – together**

Solve this one with your class using the same steps.

Problem: Which ratio is greater: 3:4 or 5:8?


- A. 3:4
- B. 5:8
- C. They are equal
- D. Cannot determine

Step 1

Step 2

Step 3

Answer:

 **You do – your turn**

Now try one on your own. Show every step.

Problem: Which lemonade recipe is more lemony? Recipe A: 2 lemons for 6 cups of water.
Recipe B: 3 lemons for 7 cups of water.

- A. Recipe B
- B. Recipe A
- C. They are the same
- D. Cannot determine

Show your work:

Try It

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

1. Two soup recipes use salt. Recipe A uses 4 tsp salt for 10 cups of broth. Recipe B uses 3 tsp salt for 8 cups of broth. Which soup is saltier per cup?

- A. Recipe B
- B. Recipe A
- C. They are equally salty
- D. Cannot determine

Show your work:

2. Chef Mara's lemon glaze uses 6 oz of lemon juice for 9 cupcakes. Chef Devi's uses 4 oz for 7 cupcakes. Whose glaze has more lemon per cupcake?

- A. Chef Mara
- B. Chef Devi
- C. Same amount
- D. Cannot determine

Show your work:

Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

Store A sells 5 notebooks for \$12. Store B sells 8 notebooks for \$20. Without calculating, a student says Store B must be cheaper because you get more notebooks. Is the student's reasoning valid? Find the unit rates to prove your answer.

Show your work:

Reflect — Exit Ticket

A bakery sells 4 muffins for \$10 and another bakery sells 6 muffins for \$14. Which bakery has the lower price per muffin?

- A. The second bakery
- B. The first bakery
- C. Same price
- D. Cannot determine

Your answer:
