

# Understand Ratios

Flagship

Lesson 3-1-flagship

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Class:** \_\_\_\_\_


## CHEF ACADEMY MISSION

### **| The Signature Recipe**

You just earned your apron at Chef Academy. Head Chef Reyes is trusting you with her signature cookie recipe — 3 cups of flour for every 2 cups of sugar. Before service begins, you must read every recipe like a pro by mastering ratios, or the whole kitchen falls behind.

# Key Vocabulary Level 2 Standard

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

  
**3 : 2**

*3 cups flour to 2 cups sugar → 3:2*


**Ratio**

Write the definition:

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**3 : 2**

*5 eggs vs. 3 eggs – which recipe uses more?*


**Comparison**

Write the definition:

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**3 : 2**

*3 cups flour : 2 cups sugar (ingredient to ingredient)*


**Part-to-part**

Write the definition:

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**3 : 2**

*3 cups flour out of 5 cups total → 3:5*

**Part-to-whole**

Write the definition:

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**3 : 2**

*3 to 2 can be written as 3:2*

### **Colon notation**

**Write the definition:**

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## Guided Notes Level 2 Standard



### WHAT WE'RE LEARNING TODAY

**I can write and describe a ratio that compares two quantities.**



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



### WORD BANK – FILL EACH BLANK WITH THE BEST WORD

Ratio

Comparison

Part-to-part

Part-to-whole

Colon notation



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

1 A comparison of two quantities, like 3 to 5, is a .

2 Showing how two amounts relate to each other is a .

3 A ratio that compares one part of a group to another part is a  ratio.

4 A ratio that compares one part of a group to the total is a  ratio.

5 Writing a ratio with a colon, like 3:5, is using .



### 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:** A recipe uses 4 cups of milk and 1 cup of cream. What is the ratio of milk to cream?

- A. 4:1
- B. 1:4
- C. 4:5
- D. 5:1

**Step 1** A ratio compares quantities in the order given.

**Step 2** Milk to cream = 4 to 1, or 4:1.


 **Answer:** A. 4:1

 **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**.

Milk to cream = 4 to 1, or 4:1.

A ratio compares quantities in the order given.

 **We do – together**

Solve this one with your class using the same steps.

**Problem:** Chef Reyes uses 6 strawberries and 2 bananas in a smoothie. What is the part-to-whole ratio of bananas to total fruit?

- A. 2:8
- B. 6:2
- C. 2:6
- D. 8:2

**Step 1** \_\_\_\_\_

**Step 2** \_\_\_\_\_

**Answer:** \_\_\_\_\_

 **You do — your turn**

Now try one on your own. Show every step.

**Problem:** In a class of 30 students, 18 are girls. What is the part-to-part ratio of boys to girls?

- A. 12:18
- B. 18:12
- C. 18:30
- D. 12:30

Show your work:

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## Try It

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

**1. Station 2 — Fruit Tray: A tray holds 4 strawberries and 6 blueberries. What is the part-to-whole ratio of strawberries to total berries?**

- A. 4:10
- B. 4:6
- C. 6:10
- D. 10:4

Show your work:

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**2. Station 5 — Soup Pot: A soup uses 8 cups of broth and 3 cups of noodles. What is the ratio of broth to noodles?**

- A. 8:3
- B. 3:8
- C. 8:11
- D. 11:3

Show your work:

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## Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

**A bag of marbles has 8 red, 6 blue, and 4 green marbles. Write three different ratios using these quantities: one part-to-part ratio, one part-to-whole ratio, and explain the difference.**

Show your work:

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## Reflect — Exit Ticket

**A bag of trail mix contains 8 peanuts and 5 raisins. What is the ratio of raisins to total pieces?**

- A. 5:13
- B. 8:5
- C. 5:8
- D. 13:5

Your answer:

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