



GRADE 4 / WATCH MR DJ SOLVE

UNIT FRACTIONS, ADDING AND SUBTRACTING

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****Find $\frac{2}{6} + \frac{1}{6}$. Decompose into unit fractions and draw a bar.**

- 1** Both terms count 6ths.
- 2** $2 + 1 = 3$ equal pieces.
- 3** Result $\frac{3}{6} = \frac{1}{2}$.

Answer: $\frac{1}{2}$ **REMEMBER** Compose and decompose equal fractional units; rename a whole when needed.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.

GRADE 4 / WORKED METHODS**UNIT FRACTIONS, ADDING AND SUBTRACTING**

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Add counts of the same unit

$$2/6 + 1/6 = 3/6 = 1/2$$

1. Both amounts count sixths.
2. Two sixths plus one sixth make three sixths.
3. Three sixths cover one half of the same whole.

$$2/6 + 1/6 = 3/6$$

 $2/6$  $3/6$

GRADE 4 / WORKED METHODS

UNIT FRACTIONS, ADDING AND SUBTRACTING

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Rename a whole to subtract

$2 \frac{1}{4} - \frac{3}{4} = 1 \frac{1}{2}$

1. Rename $2 \frac{1}{4}$ as $1 + \frac{5}{4}$.
2. Subtract $\frac{3}{4}$ from $\frac{5}{4}$ to leave $\frac{2}{4}$.
3. Combine $1 + \frac{2}{4} = 1 \frac{1}{2}$.



GRADE 4 / PRACTICE

UNIT FRACTIONS, ADDING AND SUBTRACTING

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Mild 1. Find $4/6 - 2/6$. Decompose into unit fractions and draw a bar.

My answer / conclusion: _____

◀ Mild 2. Find $5/6 + 3/6$. Decompose into unit fractions and draw a bar.

My answer / conclusion: _____



GRADE 4 / PRACTICE

UNIT FRACTIONS, ADDING AND SUBTRACTING

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Medium

3. Find $1\frac{2}{6} + \frac{2}{6}$. Show the whole and fractional parts.

Grid area for problem 3.

My answer / conclusion: _____

Medium

4. Find $2\frac{1}{4} - \frac{3}{4}$. Show how a whole can be renamed.

Grid area for problem 4.

My answer / conclusion: _____



GRADE 4 / PRACTICE

UNIT FRACTIONS, ADDING AND SUBTRACTING

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔊 Medium

5. A ribbon is $\frac{5}{6}$ m. Cut off $\frac{2}{6}$ m. How much remains?

Grid area for working out the solution to Question 5.

My answer / conclusion: _____

🔊🔊🔊 Spicy

6. Explain why $\frac{2}{7} + \frac{3}{7}$ is not $\frac{5}{14}$. Use unit fractions.

Grid area for working out the solution to Question 6.

My answer / conclusion: _____



Date _____

UNIT FRACTIONS, ADDING AND SUBTRACTING

A cartoon fox mascot with orange fur, large eyes, and a purple scarf, holding a yellow pencil.

🔥🔥🔥 **Spicy** 7. Decompose $\frac{5}{6}$ as a sum of two positive fractions with denominator 6 in every possible unordered way.

GRADE 4 / PRACTICE

UNIT FRACTIONS, ADDING AND SUBTRACTING

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Extra Spicy

8. Pi claims subtracting $\frac{3}{8}$ always gives less than 1. Give a counterexample and state what starting amounts make that true.

My answer / conclusion: _____