MATHEMATICS · GRADES 4-6

Adding fractions with like denominators

Difficulty level: Intermediate

Mathematics: Grades 4-6

This document was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

Overview of the concept

This is how you add slices of the same pizza, or combine two parts of the same recipe, when the pieces are already the same size. Because the pieces match, you just add how many of them you have and keep the size the same. It is the simplest kind of fraction addition, and it is how most everyday sharing works.



Rule

Adding fractions with like denominators: add the numerators and keep the denominator.

The pieces are already the same size, so you only count how many of them you have.

© 2026 Brett Robbins. All Rights Reserved.

Worked examples

EXAMPLE 1

Q $\frac{1}{5} + \frac{2}{5} = ?$

SOLUTION

$\frac{1}{5} + \frac{2}{5}$

Tops add: $1 + 2 = 3$

Answer: $\frac{3}{5}$

The denominators are the same, so keep 5.

Add the numerators: $1 + 2 = 3$

So the answer is $\frac{3}{5}$

EXAMPLE 2

Q $\frac{3}{8} + \frac{4}{8} = ?$

SOLUTION

$\frac{3}{8} + \frac{4}{8}$

Tops add: $3 + 4 = 7$

Answer: $\frac{7}{8}$

The denominators are the same, so keep 8.

Add the numerators: $3 + 4 = 7$

So the answer is $\frac{7}{8}$

© 2026 Brett Robbins. All Rights Reserved.

Practice questions

1. Maya eats $\frac{1}{4}$ of a pizza and Noah eats $\frac{2}{4}$ of the same pizza. How much of the pizza did they eat together?

Understand It with Pulse | Flag a mistake

2. On Monday $\frac{2}{7}$ of the bed is planted, and on Tuesday $\frac{3}{7}$ more is planted. How much of the bed is planted now?

Understand It with Pulse | Flag a mistake

3. One bow uses $\frac{1}{6}$ of the ribbon and the other uses $\frac{4}{6}$. How much of the ribbon was used?

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

4 Sam drinks $\frac{1}{5}$ of a jug of juice at lunch and $\frac{3}{5}$ at dinner. How much of the jug did he drink in all?

Understand It with Pulse | Flag a mistake

5 Liam walks $\frac{1}{8}$ of a trail in the morning and $\frac{3}{8}$ in the afternoon. How much of the trail has he walked?

Understand It with Pulse | Flag a mistake

6 $\frac{2}{9}$ of a cake is eaten at lunch and $\frac{5}{9}$ at dinner. How much of the cake was eaten?

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

7 Sara reads $\frac{1}{10}$ of a book on Monday and $\frac{3}{10}$ on Tuesday. How much of the book has she read?

Understand It with Pulse | Flag a mistake

8 Blue covers $\frac{3}{12}$ of the wall and green covers $\frac{5}{12}$. How much of the wall is painted?

Understand It with Pulse | Flag a mistake

9 Each knot uses $\frac{1}{3}$ of the rope. How much of the rope was used for the two knots?

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

10 Ana eats $\frac{2}{5}$ of a sandwich and Ben eats $\frac{2}{5}$ of the same sandwich. How much of the sandwich did they eat together?

Understand It with Pulse

Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

ANSWER KEY

1. $\frac{3}{4}$
2. $\frac{5}{7}$
3. $\frac{5}{6}$
4. $\frac{4}{5}$
5. $\frac{1}{2}$
6. $\frac{7}{9}$
7. $\frac{2}{5}$
8. $\frac{2}{3}$
9. $\frac{2}{3}$
10. $\frac{4}{5}$

© 2026 Brett Robbins. All Rights Reserved.