

Adding Fractions with Like Denominators

Name: _____

Date: _____

Score: _____ / 24

Q Quick Review

When two fractions have the **same denominator**, the pieces are already the same size, so adding them is easy. Just **add the numerators** (the top numbers) and **keep the denominator the same**. For example, $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$: two eighths plus three eighths makes five eighths. The bottom number tells you the size of the pieces, and that size never changes when you add. After adding, always check whether you can write the answer in **simplest form**, and if the numerator is as big as the denominator, your answer equals a whole.

◇ **Example:** Add $\frac{3}{10} + \frac{4}{10}$.

⇒ Both fractions are made of tenths, so the pieces are the same size. Add just the numerators: $3 + 4 = 7$. Keep the denominator 10 exactly the same, because the pieces are still tenths. That gives $\frac{7}{10}$. Check for simplest form: 7 and 10 share no common factor besides 1, so we are done.

Answer: $\frac{7}{10}$

PRACTICE

Add each pair of fractions. Write each answer in simplest form.

1. $\frac{1}{4} + \frac{2}{4}$ _____

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

3. $\frac{3}{8} + \frac{2}{8}$ _____

4. $\frac{1}{6} + \frac{2}{6}$ _____

5. $\frac{4}{10} + \frac{3}{10}$ _____

6. $\frac{2}{3} + \frac{0}{3}$ _____

7. $\frac{5}{12} + \frac{4}{12}$ _____

8. $\frac{3}{8} + \frac{3}{8}$ _____

9. $\frac{1}{5} + \frac{3}{5}$ _____

10. $\frac{2}{6} + \frac{2}{6}$ _____

11. $\frac{1}{4} + \frac{1}{4}$ _____

12. $\frac{3}{10} + \frac{3}{10}$ _____

13. $\frac{2}{8} + \frac{4}{8}$ _____

14. $\frac{4}{12} + \frac{2}{12}$ _____

15. $\frac{5}{8} + \frac{1}{8}$ _____

16. $\frac{3}{4} + \frac{1}{4}$ _____

17. $\frac{2}{5} + \frac{3}{5}$ _____

18. $\frac{40}{100} + \frac{25}{100}$ _____

19. $\frac{1}{12} + \frac{5}{12} + \frac{2}{12}$ _____

20. $\frac{2}{6} + \frac{1}{6} + \frac{3}{6}$ _____

◆ Word Problems

21. At lunch, Carlos ate $\frac{2}{8}$ of a pizza and his sister ate $\frac{3}{8}$ of the same pizza. What fraction of the pizza did they eat together?

22. Priya walked $\frac{3}{10}$ of a mile to the library and then $\frac{4}{10}$ of a mile to the park. How far did she walk in all? _____

23. A water jug is being filled. In the morning it got $\frac{1}{4}$ full and in the afternoon another $\frac{1}{4}$ was added. What fraction of the jug is full now?

24. For a craft project, Dana used $\frac{5}{12}$ of a roll of ribbon and then $\frac{4}{12}$ more. What fraction of the roll did Dana use altogether?



Answer Keys

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

13. $\frac{3}{4}$
14. $\frac{1}{2}$
15. $\frac{3}{4}$
16. 1
17. 1
18. $\frac{65}{100}$
19. $\frac{2}{3}$
20. 1
21. $\frac{5}{8}$
22. $\frac{7}{10}$ mile
23. $\frac{1}{2}$
24. $\frac{3}{4}$

Step-by-Step Explanations

1. Add the tops: $1 + 2 = 3$. Keep the bottom 4.
2. Add the tops: $2 + 1 = 3$. Keep the bottom 5.
3. Add the tops: $3 + 2 = 5$. Keep the bottom 8.
4. Add the tops: $1 + 2 = 3$, giving $\frac{3}{6}$, which simplifies to $\frac{1}{2}$.
5. Add the tops: $4 + 3 = 7$. Keep the bottom 10.
6. Add the tops: $2 + 0 = 2$. Keep the bottom 3.
7. Add the tops: $5 + 4 = 9$, giving $\frac{9}{12}$, which simplifies to $\frac{3}{4}$.
8. Add the tops: $3 + 3 = 6$, giving $\frac{6}{8}$, which simplifies to $\frac{3}{4}$.
9. Add the tops: $1 + 3 = 4$. Keep the bottom 5.
10. Add the tops: $2 + 2 = 4$, giving $\frac{4}{6}$, which simplifies to $\frac{2}{3}$.
11. Add the tops: $1 + 1 = 2$, giving $\frac{2}{4}$, which simplifies to $\frac{1}{2}$.
12. Add the tops: $3 + 3 = 6$, giving $\frac{6}{10}$, which simplifies to $\frac{3}{5}$.
13. Add the tops: $2 + 4 = 6$, giving $\frac{6}{8}$, which simplifies to $\frac{3}{4}$.
14. Add the tops: $4 + 2 = 6$, giving $\frac{6}{12}$, which simplifies to $\frac{1}{2}$.
15. Add the tops: $5 + 1 = 6$, giving $\frac{6}{8}$, which simplifies to $\frac{3}{4}$.
16. Add the tops: $3 + 1 = 4$, giving $\frac{4}{4}$, which equals one whole.
17. Add the tops: $2 + 3 = 5$, giving $\frac{5}{5}$, which equals one whole.
18. Add the tops: $40 + 25 = 65$. Keep the bottom 100.
19. Add the tops: $1 + 5 + 2 = 8$, giving $\frac{8}{12}$, which simplifies to $\frac{2}{3}$.
20. Add the tops: $2 + 1 + 3 = 6$, giving $\frac{6}{6}$, which equals one whole.
21. Both fractions are eighths, so add the tops: $2 + 3 = 5$. Together they ate $\frac{5}{8}$ of the pizza.
22. Add the numerators since the denominators match: $3 + 4 = 7$. She walked $\frac{7}{10}$ of a mile.
23. Add the tops: $1 + 1 = 2$, giving $\frac{2}{4}$. Simplify by dividing by 2 to get $\frac{1}{2}$.
24. Add the tops: $5 + 4 = 9$, giving $\frac{9}{12}$. Simplify by dividing by 3 to get $\frac{3}{4}$.



Want Even More Practice? Check Out Our Other Connecticut SBAC Test Books!



Connecticut SBAC Grade 4 Math Preparation Bundle

18 full-length practice tests across three books
(5 + 6 + 7)

No repeated questions—maximum practice value!



18 Tests!
3 Books
One Bundle

Important: All our test books contain **unique, completely different tests** from each other! Each book offers fresh practice questions—no repeats!

5 Practice Tests

- ✓ 5 complete practice tests with detailed explanations
- ✓ Perfect foundation for SBAC test preparation
- ✓ Builds confidence and test-taking skills
- ✓ High-quality questions aligned with state standards

Start your practice journey!

6 Practice Tests

- ✓ 6 complete practice tests with detailed explanations
- ✓ **Unique tests**—different from the 5 tests book
- ✓ Perfect for more practice after mastering 5 tests
- ✓ Builds even more confidence and test-taking skills
- ✓ Same high-quality questions aligned with standards

Take your practice to the next level!

7 Practice Tests

- ✓ 7 complete practice tests for maximum preparation
- ✓ **Unique tests**—different from 5 and 6 tests books
- ✓ The most comprehensive practice for Grade 4
- ✓ Ideal for students aiming for top scores
- ✓ Extensive practice builds mastery and confidence

Go all the way with comprehensive practice!