

3.12

Adding Fractions with the Same Denominator

• Example 1

Add and simplify.

$$\frac{3}{12} + \frac{5}{12} = \frac{8}{12} = \frac{2}{3}$$

The sum $\frac{8}{12}$ is *not* in lowest terms.
Divide the numerator and denominator by 4 to simplify the result.

• • • CHECK YOURSELF 1

Add.

$$\frac{4}{15} + \frac{6}{15}$$

• Example 2

Add $\frac{5}{9} + \frac{8}{9} = \frac{13}{9} = 1\frac{4}{9}$ Write the sum $\frac{13}{9}$ as a mixed number.

• • • CHECK YOURSELF 2

Add.

$$\frac{7}{12} + \frac{10}{12}$$

• • • CHECK YOURSELF ANSWERS

1. $\frac{2}{3}$. 2. $1\frac{5}{12}$.

3.12 Exercises

Name _____

Section _____

Date _____

A N S W E R S

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Add. Simplify when possible.

1. $\frac{3}{5} + \frac{1}{5}$
2. $\frac{4}{7} + \frac{1}{7}$
3. $\frac{4}{11} + \frac{6}{11}$
4. $\frac{5}{16} + \frac{4}{16}$
5. $\frac{2}{10} + \frac{3}{10}$
6. $\frac{5}{12} + \frac{1}{12}$
7. $\frac{3}{7} + \frac{4}{7}$
8. $\frac{3}{20} + \frac{7}{20}$
9. $\frac{9}{30} + \frac{11}{30}$
10. $\frac{4}{9} + \frac{5}{9}$
11. $\frac{13}{48} + \frac{23}{48}$
12. $\frac{17}{60} + \frac{31}{60}$
13. $\frac{3}{7} + \frac{6}{7}$
14. $\frac{3}{5} + \frac{4}{5}$
15. $\frac{7}{10} + \frac{9}{10}$
16. $\frac{5}{8} + \frac{7}{8}$
17. $\frac{11}{12} + \frac{10}{12}$
18. $\frac{13}{18} + \frac{11}{18}$

19. $\frac{1}{8} + \frac{1}{8} + \frac{3}{8}$

20. $\frac{1}{10} + \frac{3}{10} + \frac{3}{10}$

21. $\frac{1}{9} + \frac{4}{9} + \frac{5}{9}$

22. $\frac{7}{12} + \frac{11}{12} + \frac{1}{12}$

23. $\frac{3}{10} + \frac{7}{10} + \frac{5}{10}$

24. $\frac{9}{20} + \frac{7}{20} + \frac{11}{20}$

25. $\frac{3}{7} + \frac{1}{7}$

26. $\frac{2}{9} + \frac{3}{9}$

27. $\frac{5}{8} + \frac{1}{8}$

28. $\frac{1}{10} + \frac{3}{10}$

29. $\frac{8}{15} + \frac{2}{15}$

30. $\frac{4}{7} + \frac{3}{7}$

31. $\frac{8}{13} + \frac{7}{13}$

32. $\frac{17}{18} + \frac{5}{18}$

33. $\frac{19}{24} + \frac{13}{24}$

34. $\frac{1}{9} + \frac{2}{9} + \frac{4}{9}$

35. $\frac{2}{9} + \frac{5}{9} + \frac{4}{9}$

36. $\frac{4}{15} + \frac{7}{15} + \frac{7}{15}$

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