

Adding and Subtracting Fractions

1. $\frac{-2}{-9} - 18$

7. $\frac{13}{-6} - \frac{-6}{-6}$

13. $\frac{-12}{8} - \frac{-4}{7}$

20. $\frac{-11}{-7} + \frac{1}{-3}$

2. $\frac{-10}{8} - \frac{11}{4}$

8. $\frac{19}{-6} - (-6)$

14. $\frac{1}{-8} + \frac{-1}{9}$

21. $\frac{14}{6} + \frac{1}{3}$

3. $\frac{-3}{7} - (-13)$

9. $\frac{20}{-9} - \frac{14}{-8}$

15. $-15 - 19$

22. $\frac{-3}{-9} - \frac{17}{-7}$

4. $\frac{-19}{6} + 11$

10. $\frac{-20}{-6} + \frac{-1}{7}$

16. $\frac{7}{-8} + \frac{-11}{9}$

23. $\frac{-20}{-4} + \frac{10}{-7}$

5. $\frac{-5}{5} + \frac{-12}{7}$

11. $10 - \frac{-12}{-10}$

17. $\frac{5}{6} + \frac{-17}{-2}$

24. $-8 - \frac{1}{8}$

6. $\frac{-11}{-5} - \frac{-1}{-5}$

12. $5 + \frac{12}{9}$

18. $\frac{7}{4} + \frac{4}{-3}$

19. $\frac{11}{3} - \frac{-3}{7}$

25. $\frac{-5}{6} - \frac{9}{-2}$

Multiplying and Dividing Fractions

1. $\left(\frac{-6}{3}\right)\left(\frac{9}{5}\right)$

7. $\left(\frac{9}{6}\right)\left(\frac{-18}{-8}\right)$

14. $\left(\frac{-16}{3}\right)\left(\frac{5}{-2}\right)$

20. $\left(\frac{6}{10}\right)\left(\frac{16}{3}\right)$

2. $\left(\frac{14}{5}\right)\left(\frac{5}{5}\right)$

8. $\left(\frac{7}{-9}\right)\left(\frac{-17}{10}\right)$

15. $\left(\frac{-2}{-4}\right)\left(\frac{-7}{7}\right)$

21. $\left(\frac{-20}{3}\right)\left(\frac{14}{3}\right)$

3. $\left(\frac{11}{-10}\right)\left(\frac{15}{-10}\right)$

9. $\left(\frac{10}{7}\right)\left(\frac{13}{5}\right)$

16. $\left(\frac{-8}{10}\right)$

22. $\left(\frac{-18}{-4}\right)\left(\frac{11}{9}\right)$

4. $\left(\frac{9}{3}\right)\left(\frac{-3}{-6}\right)$

10. $\left(\frac{-12}{-6}\right)\left(\frac{-10}{8}\right)$

17. $\left(\frac{13}{10}\right)\left(\frac{-16}{7}\right)$

23. $\left(\frac{-20}{9}\right)\left(\frac{-8}{3}\right)$

5. $\left(\frac{14}{8}\right)\left(\frac{-8}{-4}\right)$

11. $\left(\frac{1}{6}\right)\left(\frac{16}{5}\right)$

18. $\left(\frac{-16}{8}\right)\left(\frac{13}{-7}\right)$

24. $\left(\frac{-9}{6}\right)\left(\frac{-18}{-5}\right)$

6. $\left(\frac{7}{7}\right)\left(\frac{-14}{4}\right)$

12. $\left(\frac{10}{3}\right)\left(\frac{20}{2}\right)$

19. $\left(\frac{2}{-5}\right)\left(\frac{-6}{-4}\right)$

25. $\left(\frac{-4}{10}\right)\left(\frac{11}{11}\right)$

Simplify

1. $\left(\frac{5}{6} + \frac{-17}{-2}\right) - \left(\frac{-6}{7}\right)\left(\frac{4}{2}\right)$

5. $\left(\frac{\left(\frac{17}{8}\right)}{\left(\frac{-17}{-2}\right)}\right)\left(\frac{5}{6} + \frac{-17}{-2}\right)$

9. $\left(\frac{\frac{14}{6} + \frac{1}{3}}{\left(\frac{1}{5}\right)\left(\frac{-2}{6}\right)}\right)$

2. $\left(\frac{5}{6} + \frac{-17}{-2}\right)\left(\frac{13}{-6} - \frac{-6}{-6}\right)$

6. $\left(\frac{\left(\frac{18}{10}\right)}{\left(\frac{-7}{-9}\right)}\right) + \left(\frac{\left(\frac{1}{-2}\right)}{\left(\frac{-18}{10}\right)}\right)$

10. $\left(\frac{-11}{-5} - \frac{-1}{-5}\right)\left(\frac{5}{6} + \frac{-17}{-2}\right)$

3. $(-9)\left(\frac{-20}{6}\right)\left(\frac{-10}{8} - \frac{11}{4}\right)$

7. $\left(\frac{-1}{-10}\right)\left(\frac{6}{6}\right) - \left(\frac{-6}{-10}\right)\left(\frac{13}{6}\right)$

11. $\left(\frac{1}{5}\right)\left(\frac{-2}{6}\right) + \left(\frac{7}{4} + \frac{4}{-3}\right)$

4. $\left(\frac{-1}{-10}\right)\left(\frac{6}{6}\right) - \left(\frac{\left(\frac{9}{-9}\right)}{\left(\frac{10}{5}\right)}\right)$

8. $\left(\frac{3}{-8}\right)\left(\frac{10}{9}\right) - \left(\frac{15}{-3}\right)\left(\frac{8}{-6}\right)$

12. $\left(\frac{15}{-3}\right)\left(\frac{8}{-6}\right) + (-15 - 19)$

13.
$$\frac{\left(\frac{-11}{-7} + \frac{1}{-3}\right)}{\left(\frac{-14}{-10}\right)\left(\frac{14}{-7}\right)}$$

14.
$$\left(\frac{6}{6}\right)\left(\frac{-17}{-2}\right) - \left(\frac{1}{5}\right)\left(\frac{-2}{6}\right)$$

15.
$$\left(\frac{20}{-9} - \frac{14}{-8}\right)\left(\frac{-11}{-7} + \frac{1}{-3}\right)$$

16.
$$\frac{\left(\frac{-20}{6}\right)}{\left(\frac{10}{-4}\right)} \div \left(\frac{-11}{-5} - \frac{-1}{-5}\right)$$

17.
$$\left(5 + \frac{12}{9}\right) - \left(\frac{3}{-8}\right)\left(\frac{10}{9}\right)$$

18.
$$\left(10 - \frac{-12}{-10}\right) + (-9)\left(\frac{-20}{6}\right)$$

19.
$$\left(\frac{3}{-8}\right)\left(\frac{10}{9}\right) + \left(\frac{-6}{7}\right)\left(\frac{4}{2}\right)$$

20.
$$\left(\frac{-11}{-5} - \frac{-1}{-5}\right)\left(\frac{-19}{-6}\right)\left(\frac{10}{-9}\right)$$

21.
$$\left(\frac{-5}{6} - \frac{9}{-2}\right)\left(\frac{5}{6} + \frac{-17}{-2}\right)$$

22.
$$\left(\frac{\left(\frac{9}{-9}\right)}{\left(\frac{10}{5}\right)}\right) + \left(\frac{-16}{9}\right)\left(\frac{-15}{10}\right)$$

23.
$$\left(\frac{-6}{-10}\right)\left(\frac{13}{6}\right) + \left(\frac{\left(\frac{6}{-4}\right)}{\left(\frac{13}{-8}\right)}\right)$$

24.
$$\left(\frac{6}{6}\right)\left(\frac{-17}{-2}\right) + \left(10 - \frac{-12}{-10}\right)$$

25.
$$\left(\frac{-11}{-7} + \frac{1}{-3}\right) - \left(\frac{-17}{-9}\right)\left(\frac{-14}{8}\right)$$

26.
$$\left(\frac{-2}{-9} - 18\right)\left(-8 - \frac{1}{8}\right)$$

27.
$$\frac{\left(\frac{1}{-8} + \frac{-1}{9}\right)}{\left(\frac{12}{4}\right)\left(\frac{-6}{-10}\right)}$$

28.
$$\left(\frac{\left(\frac{-20}{6}\right)}{\left(\frac{10}{-4}\right)}\right) + \left(\frac{\left(\frac{9}{-9}\right)}{\left(\frac{10}{5}\right)}\right)$$

29.
$$\left(\frac{15}{-5}\right)\left(\frac{-4}{-10}\right) + \left(\frac{14}{6} + \frac{1}{3}\right)$$

30.
$$\left(\frac{-19}{-6}\right)\left(\frac{10}{-9}\right) - \left(\frac{15}{-5}\right)\left(\frac{-4}{-10}\right)$$

31.
$$\left(\frac{3}{-9}\right)\left(\frac{11}{-7}\right)(-15 - 19)$$

32.
$$\left(\frac{-20}{-6} + \frac{-1}{7}\right) + (-9)\left(\frac{-20}{6}\right)$$

33.
$$\left(-8 - \frac{1}{8}\right) + \left(\frac{15}{-3}\right)\left(\frac{8}{-6}\right)$$

34.
$$\left(\frac{\left(\frac{17}{8}\right)}{\left(\frac{-17}{-2}\right)}\right) + \left(\frac{\left(\frac{9}{-9}\right)}{\left(\frac{10}{5}\right)}\right)$$

35.
$$\left(\frac{12}{4}\right)\left(\frac{-6}{-10}\right) - (-15 - 19)$$

36.
$$\left(\frac{12}{4}\right)\left(\frac{-6}{-10}\right) + \left(\frac{3}{-9}\right)\left(\frac{11}{-7}\right)$$

37.
$$\left(\frac{-16}{9}\right)\left(\frac{-15}{10}\right)\left(\frac{14}{6} + \frac{1}{3}\right)$$

38.
$$\left(\frac{3}{-9}\right)\left(\frac{11}{-7}\right) - (-9)\left(\frac{-20}{6}\right)$$

39.
$$\left(\frac{6}{6}\right)\left(\frac{-17}{-2}\right) + \left(\frac{\left(\frac{1}{-2}\right)}{\left(\frac{-18}{10}\right)}\right)$$

40.
$$\left(10 - \frac{-12}{-10}\right) - \left(\frac{-14}{-10}\right)\left(\frac{14}{-7}\right)$$

41.
$$\left(\frac{\left(\frac{10}{8}\right)}{\left(\frac{-5}{7}\right)}\right) - \left(\frac{6}{6}\right)\left(\frac{-17}{-2}\right)$$

42.
$$\left(\frac{\left(\frac{17}{8}\right)}{\left(\frac{-17}{-2}\right)}\right) + \left(\frac{\left(\frac{-19}{-5}\right)}{\left(\frac{-8}{3}\right)}\right)$$

43.
$$\left(\frac{\left(\frac{18}{10}\right)}{\left(\frac{-7}{-9}\right)}\right) + \left(\frac{-3}{7} - (-13)\right)$$

44.
$$\left(\frac{15}{-3}\right)\left(\frac{8}{-6}\right) - \left(\frac{1}{5}\right)\left(\frac{-2}{6}\right)$$

45.
$$\left(\frac{\left(\frac{10}{8}\right)}{\left(\frac{-5}{7}\right)}\right) - \left(\frac{1}{-8} + \frac{-1}{9}\right)$$

46.
$$\left(\frac{6}{6}\right)\left(\frac{-17}{-2}\right) + (-15 - 19)$$

47.
$$\left(\frac{-5}{5} + \frac{-12}{7}\right)\left(\frac{-10}{8} - \frac{11}{4}\right)$$

48.
$$\left(\frac{13}{-6} - \frac{-6}{-6}\right)\left(\frac{-11}{-7} + \frac{1}{-3}\right)$$

49.
$$\left(\frac{-1}{-10}\right)\left(\frac{6}{6}\right) + \left(\frac{-6}{-10}\right)\left(\frac{13}{6}\right)$$

50.
$$\left(\frac{15}{-3}\right)\left(\frac{8}{-6}\right) + \left(\frac{-6}{7}\right)\left(\frac{4}{2}\right)$$

Solutions:

Adding and Subtracting Fractions

1. $\frac{-160}{9}$

6. 2

11. $\frac{44}{5}$

16. $\frac{-151}{72}$

21. $\frac{8}{3}$

2. -4

7. $\frac{-19}{6}$

12. $\frac{19}{3}$

17. $\frac{28}{3}$

22. $\frac{58}{21}$

3. $\frac{88}{7}$

8. $\frac{17}{6}$

13. $\frac{-13}{14}$

18. $\frac{5}{12}$

23. $\frac{25}{7}$

4. $\frac{47}{6}$

9. $\frac{-17}{36}$

14. $\frac{-17}{72}$

19. $\frac{86}{21}$

24. $\frac{-65}{8}$

5. $\frac{-19}{7}$

10. $\frac{67}{21}$

15. -34

20. $\frac{26}{21}$

25. $\frac{11}{3}$

Multiplying and Dividing Fractions

1. $\frac{-18}{5}$

6. $\frac{-7}{2}$

11. $\frac{5}{96}$

16. $\frac{-8}{1}$

21. $\frac{-10}{7}$

2. $\frac{14}{5}$

7. $\frac{27}{8}$

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

17. $\frac{-104}{35}$

22. $\frac{11}{2}$

3. $\frac{33}{20}$

8. $\frac{70}{153}$

13. $\frac{-323}{12}$

18. $\frac{26}{7}$

23. $\frac{160}{27}$

4. $\frac{6}{1}$

9. $\frac{26}{7}$

14. $\frac{32}{15}$

19. $\frac{-4}{15}$

24. $\frac{-5}{12}$

5. $\frac{7}{8}$

10. $\frac{-5}{2}$

15. $\frac{-1}{2}$

20. $\frac{9}{80}$

25. $\frac{-2}{55}$

Simplification

1. $\frac{232}{21}$

12. $\frac{-82}{3}$

22. $\frac{13}{6}$

32. $\frac{697}{21}$

42. $\frac{-47}{40}$

2. $\frac{-266}{9}$

13. $\frac{-65}{147}$

23. $\frac{289}{130}$

33. $\frac{-35}{24}$

43. $\frac{521}{35}$

3. -120

14. $\frac{257}{30}$

24. $\frac{173}{10}$

34. $\frac{-1}{4}$

44. $\frac{101}{15}$

4. $\frac{3}{5}$

15. $\frac{-221}{378}$

25. $\frac{1145}{252}$

35. $\frac{179}{5}$

45. $\frac{-109}{72}$

5. $\frac{7}{3}$

16. $\frac{2}{3}$

26. $\frac{1300}{9}$

36. $\frac{244}{105}$

46. $\frac{-51}{2}$

6. $\frac{1633}{630}$

17. $\frac{27}{4}$

27. $\frac{-85}{648}$

37. $\frac{64}{9}$

47. $\frac{76}{7}$

7. $\frac{-6}{5}$

18. $\frac{194}{5}$

28. $\frac{5}{6}$

38. $\frac{-619}{21}$

47. $\frac{76}{7}$

8. $\frac{-85}{12}$

19. $\frac{-179}{84}$

29. $\frac{22}{15}$

39. $\frac{79}{9}$

48. $\frac{-247}{63}$

9. -40

20. $\frac{-190}{27}$

30. $\frac{-313}{135}$

40. $\frac{58}{5}$

49. $\frac{7}{5}$

10. $\frac{56}{3}$

21. $\frac{308}{9}$

31. $\frac{-374}{21}$

41. $\frac{-41}{4}$

50. $\frac{104}{21}$

11. $\frac{7}{20}$