

Fractions

Directions: Perform each operation WITHOUT a calculator! Show your work. Give each answer as a reduced fraction (or whole number when applicable).

1. $\frac{5}{12} + \frac{1}{12} =$

2. $\frac{11}{15} - \frac{4}{15} =$

3. $\frac{3}{14} + \frac{9}{14} =$

4. $\frac{17}{18} - \frac{5}{18} =$

5. $\frac{4}{11} + \frac{3}{11} - \frac{2}{11} =$

6. $\frac{1}{2} + \frac{1}{3} =$

7. $\frac{3}{4} - \frac{1}{6} =$

8. $\frac{2}{5} + \frac{1}{4} =$

9. $\frac{5}{6} - \frac{1}{4} =$

10. $\frac{3}{8} + \frac{1}{6} =$

$$11. \frac{2}{3} + \frac{3}{10} =$$

$$12. \frac{7}{8} - \frac{1}{3} =$$

$$13. \frac{5}{12} + \frac{1}{8} =$$

$$14. \frac{11}{15} - \frac{2}{9} =$$

$$15. \frac{2}{9} + \frac{5}{12} =$$

$$16. \frac{7}{12} - \frac{2}{15} =$$

$$17. \frac{1}{6} + \frac{3}{4} - \frac{1}{3} =$$

$$18. \frac{5}{8} - \frac{1}{4} + \frac{1}{16} =$$

$$19. \frac{3}{5} + \frac{1}{2} - \frac{1}{4} =$$

$$20. \frac{7}{10} - \frac{1}{6} + \frac{1}{3} =$$

$$21. \frac{5}{6} + \frac{1}{4} - \frac{1}{3} =$$

$$22. \frac{11}{12} - \frac{2}{5} + \frac{1}{6} =$$

$$23. \frac{3}{8} + \frac{5}{12} - \frac{1}{6} =$$

$$24. \frac{7}{9} - \frac{1}{6} + \frac{1}{4} =$$

$$25. \frac{5}{7} + \frac{1}{2} - \frac{3}{14} =$$

$$26. \left(\frac{2}{3}\right)\left(\frac{3}{5}\right) =$$

$$27. \left(\frac{5}{8}\right)\left(\frac{4}{15}\right) =$$

$$28. \left(\frac{7}{9}\right)\left(\frac{3}{14}\right) =$$

$$29. \left(\frac{4}{5}\right)\left(\frac{15}{16}\right) =$$

$$30. \left(\frac{11}{12}\right)\left(\frac{6}{11}\right) =$$

$$31. \left(\frac{3}{7}\right)\left(\frac{14}{15}\right) =$$

$$32. \left(\frac{5}{6}\right)\left(\frac{9}{10}\right) =$$

$$33. \frac{\frac{3}{4}}{\frac{2}{5}} =$$

$$34. \frac{\frac{5}{6}}{\frac{10}{9}} =$$

$$35. \frac{\frac{7}{8}}{\frac{14}{15}} =$$

$$36. \frac{\frac{2}{3}}{\frac{4}{9}} =$$

$$37. \frac{\frac{9}{10}}{\frac{3}{5}} =$$

$$38. \frac{\frac{5}{12}}{\frac{25}{18}} =$$

$$39. \frac{\frac{11}{14}}{\frac{22}{21}} =$$

$$40. \left(\frac{2}{3}\right)^2 =$$

$$41. \left(\frac{3}{2}\right)^3 =$$

$$42. \left(\frac{1}{2}\right)^4 =$$

$$43. \left(\frac{2}{3}\right)^4 =$$

$$44. \left(\frac{1}{2}\right)^5 =$$

$$45. \left(\frac{3}{2}\right)^4 =$$

$$46. \sqrt{\left(\frac{9}{4}\right)(16)} =$$

$$47. \sqrt{\left(\frac{25}{9}\right)(36)} =$$

$$48. \sqrt{\frac{49}{4} + \frac{15}{4}} =$$

$$49. \sqrt{\frac{81}{16} - \frac{17}{16}} =$$

$$50. \sqrt{\frac{100}{9} + \frac{44}{9}} =$$