

Adding and Subtracting Rational Numbers Worksheet

Directions: Solve each problem. Simplify your answers when possible.

Part A: Add the Rational Numbers

$$1. \frac{1}{4} + \frac{3}{4} = \frac{\square}{\square} = \square$$

$$2. \frac{2}{5} + \frac{1}{5} = \frac{\square}{\square}$$

$$3. \frac{3}{8} + \frac{1}{8} = \frac{\square}{\square}$$

$$4. \frac{7}{10} + \frac{2}{10} = \frac{\square}{\square}$$

$$5. \frac{5}{6} + \frac{1}{6} = \frac{\square}{\square} = \square$$

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

$$7. -\frac{2}{5} + \frac{4}{5} = \frac{\square}{\square}$$

$$8. 1.5 + 2.3 = \square$$

$$9. -3.2 + 1.7 = \square$$

$$10. 4.25 + (-2.5) = \square$$

Part B: Subtract the Rational Numbers

$$11. \frac{5}{6} - \frac{2}{6} = \frac{\square}{\square} = \frac{\square}{\square}$$

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

$$13. \frac{9}{10} - \frac{4}{10} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$14. \frac{3}{5} - \frac{1}{5} = \frac{\square}{\square}$$

$$15. \frac{11}{12} - \frac{5}{12} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$16. -\frac{3}{4} - \frac{1}{4} = \frac{\square}{\square} = \square$$

$$17. \frac{2}{3} - \frac{5}{3} = \frac{\square}{\square} = \square$$

$$18. 6.8 - 2.4 = \square$$

$$19. -1.5 - 2.5 = \square$$

$$20. 3.75 - 5.25 = \square$$

Part C: Add or Subtract Rational Numbers with Unlike Denominators

$$21. \quad \frac{1}{2} + \frac{1}{4} = \frac{\square}{\square}$$

$$22. \quad \frac{2}{3} + \frac{1}{6} = \frac{\square}{\square}$$

$$23. \quad \frac{3}{4} - \frac{1}{2} = \frac{\square}{\square}$$

$$24. \quad \frac{5}{6} - \frac{1}{3} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$25. \quad \frac{2}{5} + \frac{3}{10} = \frac{\square}{\square}$$

$$26. \quad \frac{7}{8} - \frac{1}{4} = \frac{\square}{\square}$$

$$27. \quad -\frac{1}{2} + \frac{3}{4} = \frac{\square}{\square}$$

$$28. \quad \frac{5}{6} - \frac{7}{12} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$29. \quad -\frac{2}{3} + \frac{1}{6} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$30. \quad \frac{7}{10} - \frac{9}{20} = \frac{\square}{\square} = \frac{\square}{\square}$$

Part D: Word Problems

31. Emily walked $\frac{3}{4}$ mile in the morning and $\frac{1}{2}$ mile in the afternoon. How far did she walk altogether?

Answer: $\frac{\square}{\square}$ or $\square \frac{\square}{\square}$ mile

32. A tank contained 8.5 gallons of water. After using 3.25 gallons, how much water remained?

Answer: _____ gallons

33. The temperature was -2.5°C in the morning and rose 4.75°C by noon. What was the temperature at noon?

Answer: _____ $^{\circ}\text{C}$

34. A recipe calls for $\frac{2}{3}$ cup of flour and $\frac{1}{6}$ cup of cocoa powder. How many cups are used altogether?

Answer: $\frac{\square}{\square}$ cup

35. A diver is -15.5 feet below sea level and rises 7.25 feet. What is the diver's new position?

Answer: _____ feet