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. $3.75 - 5.25 = \square$

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Part C: Add or Subtract Rational Numbers with Unlike Denominators

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

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

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

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

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

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

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

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

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

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

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: ____ °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

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