

Problem Set 1

1. $\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$
2. $\frac{3}{8} - \frac{2}{8} = \frac{1}{8}$
3. $\frac{4}{3} - \frac{1}{3} + \frac{2}{3} = \frac{3}{3} + \frac{2}{3} = \frac{5}{3} = 1\frac{2}{3}$
4. $\frac{1}{3} + \frac{1}{5} = \frac{5}{15} + \frac{3}{15} = \frac{8}{15}$
5. $\frac{3}{8} - \frac{1}{5} = \frac{15}{40} - \frac{8}{40} = \frac{7}{40}$
6. $\frac{2}{3} - \frac{1}{8} = \frac{16}{24} - \frac{3}{24} = \frac{13}{24}$
7. $\frac{1}{13} + \frac{1}{5} = \frac{5}{65} + \frac{13}{65} = \frac{18}{65}$
8. $\frac{14}{15} - \frac{2}{3} = \frac{14}{15} - \frac{10}{15} = \frac{4}{15}$
9. $\frac{5}{9} + \frac{2}{5} = \frac{25}{45} + \frac{18}{45} = \frac{43}{45}$
10. $\frac{14}{17} - \frac{6}{34} = \frac{28}{34} - \frac{6}{34} = \frac{22}{34} = \frac{11}{17}$
11. $\frac{5}{13} + \frac{1}{26} = \frac{10}{26} + \frac{1}{26} = \frac{11}{26}$
12. $\frac{4}{7} - \frac{2}{5} = \frac{20}{35} - \frac{14}{35} = \frac{6}{35}$
13. $\frac{4}{7} + \frac{1}{8} + \frac{1}{2} = \frac{32}{56} + \frac{7}{56} + \frac{28}{56} = \frac{67}{56} = 1\frac{11}{56}$
14. $\frac{3}{5} + \frac{1}{8} + \frac{1}{8} = \frac{24}{40} + \frac{5}{40} + \frac{5}{40} = \frac{34}{40} = \frac{17}{20}$
15. $\frac{5}{11} - \frac{1}{6} + \frac{2}{3} = \frac{30}{66} - \frac{11}{66} + \frac{44}{66} = \frac{63}{66} = \frac{21}{22}$
16. $2\frac{1}{2} + 3\frac{1}{5} = 2\frac{5}{10} + 3\frac{2}{10} = 5\frac{7}{10}$
17. $7\frac{3}{8} + 6\frac{1}{3} = 7\frac{9}{24} + 6\frac{8}{24} = 13\frac{17}{24}$
18. $1\frac{1}{8} + 7\frac{2}{5} = 1\frac{5}{40} + 7\frac{16}{40} = 8\frac{21}{40}$
19. $15\frac{1}{3} - 7\frac{4}{5} = 15\frac{5}{15} - 7\frac{12}{15} = 14\frac{2}{15} - 7\frac{12}{15} = 7\frac{8}{15}$
20. $42\frac{3}{8} - 21\frac{3}{4} = 42\frac{3}{8} - 21\frac{6}{8} = 41\frac{11}{8} - 21\frac{6}{8} = 20\frac{5}{8}$
21. $22\frac{2}{5} - 13\frac{7}{15} = 22\frac{6}{15} - 13\frac{7}{15} = 21\frac{21}{15} - 13\frac{7}{15} = 8\frac{14}{15}$
22. $42\frac{1}{11} - 18\frac{2}{3} = 42\frac{3}{33} - 18\frac{22}{33} = 41\frac{36}{33} - 18\frac{22}{33} = 23\frac{14}{33}$
23. $78\frac{2}{5} - 14\frac{7}{10} = 78\frac{4}{10} - 14\frac{7}{10} = 77\frac{14}{10} - 14\frac{7}{10} = 63\frac{7}{10}$
24. $43\frac{1}{13} - 6\frac{5}{8} = 43\frac{8}{104} - 6\frac{65}{104} = 42\frac{112}{104} - 6\frac{65}{104} = 36\frac{47}{104}$
25. $21\frac{1}{5} - 15\frac{7}{13} = 21\frac{13}{65} - 15\frac{35}{65} = 20\frac{78}{65} - 15\frac{35}{65} = 5\frac{43}{65}$
26. $21\frac{2}{19} - 7\frac{7}{10} = 21\frac{20}{190} - 7\frac{133}{190} = 20\frac{210}{190} - 7\frac{133}{190} = 13\frac{77}{190}$
27. $43\frac{3}{17} - 21\frac{9}{10} = 43\frac{30}{170} - 21\frac{153}{170} = 42\frac{200}{170} - 21\frac{153}{170} = 21\frac{47}{170}$
28. $7\frac{1}{8} + 5\frac{2}{7} = 7\frac{7}{56} + 5\frac{16}{56} = 12\frac{23}{56}$ units
29. $42\frac{1}{7} - 24\frac{2}{11} = 42\frac{11}{77} - 24\frac{14}{77} = 41\frac{88}{77} - 24\frac{14}{77} = 17\frac{74}{77}$ units
30. $12\frac{11}{16} - 3\frac{5}{8} = 12\frac{11}{16} - 3\frac{10}{16} = 9\frac{1}{16}$ units