

1. To add or subtract common fractions reduce them to similar fractions, and then add or subtract the numerators.

2. To multiply a common fraction by an integer, either multiply the numerator or divide the denominator. To divide a common fraction by an integer, either divide the numerator or multiply the denominator.

3. To multiply a common fraction by another common fraction, multiply the numerators to find the new numerator, and the denominators to find the new denominator.

4. To divide by a common fraction, invert the divisor and multiply.

5. To change the form of a common fraction without altering its value, multiply or divide both numerator and denominator by the same number.

### III.

Find the value of:—

1.  $\frac{4}{5} + \frac{6}{7} + \frac{13}{15} + \frac{8}{9}$ .
2.  $\frac{8}{9} + \frac{10}{16} + \frac{11}{11} + \frac{11}{12}$ .
3.  $5\frac{1}{6} + 6\frac{1}{7} + 7\frac{1}{8} + 9\frac{1}{12}$ .
4.  $7\frac{1}{10} + \frac{12}{17} + 4\frac{3}{5} + 18\frac{1}{9}$ .
5.  $8\frac{1}{4} + 56\frac{3}{5} + 7\frac{1}{6} + 37\frac{1}{4} + 12\frac{5}{8} + 47\frac{4}{9} + 98\frac{7}{10} + 29$ .
6.  $68\frac{4}{15} + \frac{11}{18} + 72 + \frac{1}{2} + 6\frac{1}{12} + \frac{3}{16} + 19\frac{5}{8} + 12\frac{4}{9}$ .
7.  $8 - 6\frac{3}{17}$ .
8.  $\frac{3}{5} - \frac{5}{103}$ .
9.  $50\frac{9}{13} - 19$ .
10.  $8\frac{3}{10} - 4\frac{1}{4}$ .
11.  $10\frac{1}{11} - 6\frac{4}{5}$ .
12.  $13\frac{3}{10} - 8\frac{7}{14}$ .
13.  $113\frac{85}{120} - 56\frac{4}{112}$ .
14.  $16\frac{1}{12} - 13\frac{3}{12}$ .
15.  $118\frac{2}{7} - \frac{7}{35}$ .
16.  $3 - 2\frac{9}{14} + \frac{1}{4}$ .
17.  $4\frac{7}{12} - 3\frac{9}{10} + \frac{4}{5}$ .
18.  $8\frac{1}{3} - 2\frac{2}{5} - 3\frac{7}{6}$ .
19.  $\frac{1}{2} - \frac{1}{3} + \frac{7}{8} - \frac{5}{12}$ .
20.  $\frac{7}{8} + \frac{7}{12} + \frac{7}{16} - \frac{7}{18}$ .
21.  $\frac{1}{18} - \frac{8}{15} + \frac{1}{10} - \frac{1}{30}$ .
22.  $\frac{3}{16} + \frac{1}{15} - \frac{1}{5} + \frac{4}{9}$ .
23.  $10 - \frac{1}{2} + \frac{1}{3} - \frac{1}{4} + \frac{1}{5}$ .
24.  $5 + 3\frac{1}{4} - 4 + \frac{3}{5} - \frac{2}{5}$ .
25.  $\frac{3}{8} - 6\frac{1}{3} + 8\frac{1}{4} + \frac{5}{6}$ .
26.  $8\frac{1}{2} + \frac{7}{7} + \frac{5}{6} - 3\frac{5}{6}$ .
27.  $7 + \frac{1}{4} + \frac{1}{5} - \frac{1}{6} - \frac{1}{8} - \frac{1}{10}$ .
28.  $\frac{1}{2} + \frac{1}{3} - (\frac{1}{4} + \frac{1}{5})$ .
29.  $7 - (1\frac{1}{4} + 2\frac{1}{3}) - (\frac{5}{6} - \frac{3}{4})$ .