

$$8. \frac{359}{360} - \frac{199}{200} = \frac{359 \times 1 - 199 \times 1}{360 \times 200} = \frac{160}{360 \times 200} \\ = \frac{1}{450}.$$

Complex Fractions.**Examples (xxxviii). Page 67.**

$$7. \frac{\frac{2}{5 + \frac{6}{9 + \frac{3}{4}}}} = \frac{\frac{2}{5 + \frac{24}{36 + 3}}}{= \frac{2}{5 + \frac{8}{13}} = \frac{26}{73}.$$

$$9. \frac{\frac{5}{2 - \frac{1}{4 - \frac{2}{5}}}} = \frac{\frac{5}{2 - \frac{5}{20 - 2}}}{= \frac{90}{36 - 5} = 2\frac{28}{31}.$$

$$10. \frac{\frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{2}{5}}}}} = \frac{\frac{1}{1 + \frac{1}{1 + \frac{5}{7}}}}{= \frac{1}{1 + \frac{7}{12}} = \frac{12}{19}.$$

Examples (xxxix.) Page 68.

$$1. 3\frac{2}{5} \div (2\frac{1}{3} + 1\frac{5}{7}) = 3\frac{2}{5} \div (2\frac{7}{21} + 1\frac{15}{21}) \\ = 3\frac{2}{5} \div 4\frac{1}{21} \\ = \frac{17}{5} \times \frac{21}{85} \\ = \frac{21}{25}.$$

$$2. (4\frac{3}{11} + 2\frac{1}{5}) \div 35\frac{3}{5} = (4\frac{15}{55} + 2\frac{11}{55}) \div 35\frac{3}{5} \\ = \frac{356}{55} \times \frac{5}{178} \\ = \frac{2}{11}.$$

$$7. \frac{2}{3} \text{ of } \frac{5}{9} + \frac{3}{7} \div \frac{4}{3} = \frac{10}{27} + \frac{3}{7} \times \frac{5}{4} \\ = 5 (\frac{2}{27} + \frac{3}{28}) \\ = 5 (\frac{56 + 81}{27 \times 28}) \\ = \frac{685}{756}.$$

When the num. or den. has a common factor, it should be taken out, the operations performed, and the common factor introduced at the last.