

$$\frac{20}{20} = \frac{4 \times 20}{9}$$

$$2 \frac{69}{176} = 1 \frac{33}{176}$$

$$= 10 \frac{146}{176}$$

$$= \frac{453}{302} = 1 \frac{1}{2}$$

$$\frac{7}{70} = 1 \frac{1}{10}$$

$$4 - \frac{1}{16 - 13}$$

$$+ \frac{1}{23 - 16}$$

$$= 1 \frac{1}{2}$$

$$= 1$$

$$= \frac{3}{4}$$

$$7$$

$$\times \frac{9}{23} \times 7 = 5$$

$$6 + \frac{1}{6 - \frac{1}{6}} \times 10 \frac{8}{9} = \frac{6 + \frac{6}{35}}{4 - \frac{4}{15}} \times \frac{98}{9}$$

$$= 6 \times \frac{36}{35} \times \frac{1}{4} \times \frac{14}{14} \times \frac{98}{9} = 18$$

$$17. \frac{83 - 7 \frac{3}{4} + 5 \frac{2}{3} - 4 \frac{1}{2}}{13 - 11 \frac{9}{10} + 10 \frac{7}{9} - 9 \frac{17}{20}} = \frac{2 + \frac{3}{5} + \frac{2}{3} - \frac{3}{4} - \frac{1}{2}}{3 + \frac{7}{9} - \frac{1}{10} - \frac{17}{20}} = \frac{\frac{121}{180}}{\frac{365}{180}} = \frac{121 \times 3}{365};$$

$$\text{then } \frac{121 \times 3}{365} \times \frac{9}{11} \times 365 = 66$$

$$18. \frac{1 \times 5 \frac{17}{23} \times 6 \frac{3}{11} + 6 \frac{19}{51} \times 1 \frac{23}{49} \div 2 \frac{5}{17} + 1 \frac{10}{49}}{9 \frac{16}{57} \times 1 \frac{23}{23} \div 5 \frac{17}{38} + 3 \frac{11}{18} \times 6 \frac{17}{21} - 7 \frac{21}{32}} \times 12 \frac{4}{9}$$

$$= \frac{1 \times 1 \frac{132}{23} \times \frac{60}{11} + \frac{325}{51} \times \frac{72}{49} \times \frac{17}{30} + \frac{59}{49}}{\frac{529}{57} \times \frac{45}{23} \times \frac{38}{207} + \frac{245}{78} \times \frac{143}{21} \times \frac{32}{245}} \times \frac{112}{9}$$

$$= \frac{1 \frac{2}{7} + \frac{200}{49} + \frac{59}{49}}{\frac{10}{3} + \frac{176}{63}} \times \frac{112}{9} = \frac{343}{49} \times \frac{112}{9} = \frac{343}{63} \times \frac{112}{9}$$

$$= \frac{343}{49} \times \frac{63}{386} \times \frac{112}{9} = \frac{2744}{193} = 14 \frac{42}{193}$$

$$19. \frac{\frac{1}{23} \text{ of } 6 \frac{13}{17} \text{ of } 24 \frac{11}{13} - 4 \frac{13}{18} \times 3 \frac{33}{34} \div 3 \frac{37}{90}}{8 \frac{17}{19} \times 5 \frac{14}{30} \div 4 \frac{15}{32} - 7 \frac{19}{20} \times 5 \frac{11}{35} \div 14 \frac{21}{25}} \times 4 \frac{8}{23}$$

$$= \frac{\frac{1}{23} \times \frac{115}{17} \times \frac{323}{13} - \frac{85}{18} \times \frac{135}{34} \times \frac{96}{325}}{\frac{169}{19} \times \frac{209}{30} \times \frac{32}{143} - \frac{159}{20} \times \frac{336}{65} \times \frac{25}{371}} \times \frac{100}{23}$$

$$= \frac{\frac{95}{32} - \frac{36}{13}}{\frac{32}{3} - \frac{36}{13}} \times \frac{100}{23} = \frac{1}{13} \times 23 \times 39 \times \frac{1}{308} \times \frac{100}{23} = \frac{75}{77}$$

$$20. \frac{19}{7 \times \frac{2}{3 - 1 \frac{3}{4}}} \times \frac{7795}{67184} \div (1 \frac{3}{15} - \frac{47}{48})$$

$$= \frac{19}{7 \times \frac{4}{4}} \times \frac{7735}{67184} \times \frac{48}{10} = \frac{19}{7} \times \frac{4}{6} \times \frac{7735}{67184} \times \frac{48}{10} = 1$$

$$21. \frac{1}{2 + \frac{9}{4 + \frac{5}{6}}} \times \frac{4862}{4147} \div (1 \frac{1}{2} - \frac{23}{38}) = \frac{20}{70} \times \frac{4862}{4147} \times \frac{38}{34} = \frac{1}{2}$$