22. $\dfrac{4-\frac{5}{6}-\frac{7}{6-\frac{3}{8}}}{7-\frac{4}{7}+\frac{4}{4-\frac{2}{5}}} \times \dfrac{\frac{1}{\frac{1}{2}-\frac{27}{59}}-13}{19-\frac{1}{\frac{1}{2}-\frac{6}{31}}} = \dfrac{\frac{42}{19}-\frac{40}{45}}{\frac{28}{45}+\frac{10}{18}} \times \dfrac{\frac{118}{5}-13}{19-\frac{62}{19}}$

$= \dfrac{\frac{1130}{19\times45}}{\frac{106}{90}} \times \dfrac{\frac{53}{5}}{\frac{299}{19}} = \frac{1130}{19} \times \frac{1}{45} \times \frac{90}{106} \times \frac{53}{5} \times \frac{19}{299}$

$= \frac{5\times226}{19} \times \frac{1}{45} \times \frac{45}{53} \times \frac{53}{5} \times \frac{19}{299} = \frac{226}{299}.$

23. $\dfrac{\frac{10}{11}+\frac{18}{19}}{\frac{12}{7}-\frac{5}{11}} \times \dfrac{\frac{9}{4}-\frac{22}{14}}{\frac{56}{57}-\frac{110}{228}} = \dfrac{\frac{388}{11\times19}}{\frac{97}{7\times11}} \times \dfrac{\frac{19}{28}}{\frac{114}{228}}$

$= \frac{388}{11} \times \frac{1}{19} \times \frac{77}{97} \times \frac{19}{28} \times \frac{228}{114} = 2.$

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2. $18\frac{3}{4} \times \$2\frac{2}{5} + 27\frac{1}{2} \times \$\frac{3}{20} = \frac{75}{4} \times \$\frac{12}{5} + \frac{55}{2} \times \$\frac{3}{20}$
$= \frac{15}{4} \times \$12 + \frac{11}{2} \times \$\frac{3}{4}$
$= \$49\frac{1}{8}.$

3. Sum $= 12\frac{32}{40} + 8\frac{35}{40} = 21\frac{27}{40}.$
Diff. $= 12\frac{32}{40} - 8\frac{35}{40} = 3\frac{37}{40}.$
And $21\frac{27}{40} \div 3\frac{37}{40} = \frac{867}{40} \times \frac{40}{157} = 5\frac{82}{157}.$

4. $\frac{4}{7}$ of $\frac{5}{11}$ of share $= \$3600$;
$\therefore$ whole $= \frac{7}{4}$ of $\frac{11}{5}$ of $\$3600 = \$13860.$

5. Since the sum of two numbers added to their diff. = twice the greater, we have
$4\frac{1}{5} + 2\frac{4}{7} = \frac{237}{35} =$ twice the greater;
$\therefore$ greater $= \frac{237}{70} = 3\frac{27}{70}.$
And $4\frac{1}{5} - 3\frac{27}{70} = \frac{57}{35} =$ the less.