8. $(1\frac{1}{13} \div \frac{2}{7})$ of $7\frac{7}{12} - 1\frac{3}{5} = \frac{14}{13} \times \frac{7}{2} \times \frac{91}{12} - 1\frac{3}{5} = 22\frac{14}{24} - 1\frac{3}{5}$
$= 20\frac{103}{120}$.

9. $(\frac{4}{9} - \frac{3}{11})\ (2\frac{3}{4} + 3\frac{2}{3}) = \frac{17}{9 \times 11} \times \frac{77}{12} = \frac{17}{9} \times \frac{7}{12} = 1\frac{115}{108}$

11. $\dfrac{(2+\frac{1}{5}) \div (3+\frac{1}{7})}{(\frac{1}{2}-\frac{1}{3}) \times (4-3\frac{3}{7})} = \dfrac{\frac{11}{5} \times \frac{7}{22}}{\frac{1}{6} \times \frac{4}{7}} = \frac{1}{5} \times \frac{7}{2} \times \frac{3}{1} \times \frac{7}{2} = 7\frac{7}{20}$.

12. $\dfrac{(3\frac{1}{3} - 2\frac{1}{2}) \div \frac{5}{6} \text{ of } \frac{3}{8}}{2\frac{2}{3} \div (\frac{1}{2}+\frac{1}{4})} = \dfrac{\frac{5}{6} \div \frac{5}{16}}{\frac{8}{3} \times \frac{4}{3}} = \frac{5}{6} \times \frac{16}{5} \times \frac{3}{8} \times \frac{3}{4} = \frac{3}{4}$.

Note. Two or more fractions connected by *of* are always considered as *one* quality.

Miscellaneous Examples in Fractions.

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5. $3\frac{2}{5} \times 3\frac{3}{7} \div (1\frac{5}{7} \times 1\frac{13}{21}) = \frac{17}{5} \times \frac{24}{7} \times \frac{7}{12} \times \frac{21}{34} = \frac{21}{5} = 4\frac{1}{5}$.

Note.—*Indicate* all operations before performing any of them. It is much easier to simplify *before* performing the multiplication or division than *after*.

8. $(\frac{1}{3} + \frac{4}{7}) \dfrac{20\frac{1}{4}}{3\frac{6}{7} + 2\frac{1}{4}} = \dfrac{19}{21} \times \dfrac{81}{15\frac{3}{7} + 9} = \dfrac{19}{21} \times \dfrac{27}{5\frac{1}{7} + 3} = \dfrac{19}{7} \times \dfrac{63}{36+21} = 3$.

9. $(3\frac{4}{5} + 5\frac{1}{9} - \frac{1}{4\frac{1}{5}})\ (4\frac{1}{5} - 3\frac{1}{4}) = 8\frac{8}{9} \times \frac{19}{20} = \dfrac{4 \times 19}{9}$,

and $1\frac{5}{11} + 2\frac{1}{8} - (2\frac{9}{16} - \frac{1}{8} - \frac{1}{22}) = 3\frac{58}{88} - (2\frac{7}{16} - \frac{1}{22})$
$= \frac{19}{16}$.

$\therefore$ quotient $= \dfrac{4 \times 19}{9} \div \frac{19}{16} = \frac{64}{9} = 7\frac{1}{9}$.

10. $(1\frac{1}{3} + 2\frac{2}{7}) \left(\dfrac{5\frac{1}{16}}{4\frac{6}{7} + 1\frac{1}{4}}\right) = \frac{76}{21} \times \dfrac{81}{77\frac{5}{7} + 20} = \frac{76}{1} \times \dfrac{27}{544 + 140} = 3$.