$$\frac{1}{2} \xrightarrow{\text{N}} \text{D} \implies \overset{\text{Fraction}}{\frac{3}{1}}, \frac{7}{9}, \frac{9}{14}, 3\frac{4}{9}, 0.5 = \frac{0.5}{1} = \frac{5}{10} = \frac{1}{2}$$

1) Pure fraction :→ $\frac{1}{2}, \frac{3}{4}, \frac{7}{9}, \frac{11}{15}, \frac{17}{19}$ ⎱ 0.333333......... $\implies \frac{1}{3}$

$\boxed{N<D}$ पैसे

2) Mixed Fraction :→ $13\frac{1}{2}, 17\frac{5}{6}, 19\frac{8}{17}, 5\frac{1}{3}$

रुपये + पैसे

$\boxed{N > D}$

$\implies \frac{27}{2}, \frac{107}{6}, \frac{331}{17}, \frac{16}{3}$

Mixed		Pure	Pure		Mixed
$17\frac{2}{3}$	$\xrightarrow{\frac{(17\times3)+2}{3}}$	$\frac{53}{3}$	$\frac{13}{2}$	$\longrightarrow$	$6\frac{1}{2}$
$15\frac{1}{8}$	$\longrightarrow$	$\frac{121}{8}$	$\frac{17}{5}$	$\longrightarrow$	$3\frac{2}{5}$
$13\frac{2}{5}$	$\longrightarrow$	$\frac{67}{5}$	$\frac{87}{13}$	$\longrightarrow$	$6\frac{9}{13}$
$18\frac{3}{4}$	$\longrightarrow$	$\frac{75}{4}$	$\frac{85}{12}$	$\longrightarrow$	$7\frac{1}{12}$
$7\frac{9}{13}$	$\longrightarrow$	$\frac{100}{13}$	$\frac{113}{17}$	$\longrightarrow$	$6\frac{11}{17}$
$12\frac{5}{13}$	$\longrightarrow$	$\frac{161}{13}$			

$$\Rightarrow \quad \frac{1}{2} = \frac{10}{20} = \frac{20}{40} = \frac{80}{160} = \frac{40}{80} = \frac{10}{20} = \frac{5}{10} = \frac{1}{2}$$

Top operations (numerators): ×10, ×2, ×4, ÷2, ÷4, ÷2, ÷5

Bottom operations (denominators): ×10, ×2, ×4, ÷2, ÷4, ÷2, ÷5

Multiplication & Division

1) $\dfrac{7}{9} \times \dfrac{3}{4} = \dfrac{7 \times 3}{\underset{3}{9} \times 4} = \dfrac{7}{12}$

2) $\dfrac{5}{6} \times \dfrac{7}{8} = \boxed{\dfrac{35}{48}}$

$\dfrac{\left(\dfrac{1}{2}\right)}{\left(\dfrac{3}{4}\right)}$

3) $\dfrac{8}{9} \times \dfrac{15}{16} = \dfrac{5}{6}$

4) $\dfrac{3}{4} \times \dfrac{2}{3} \times \dfrac{8}{15} = \dfrac{4}{15}$

5) $\dfrac{1}{2} \div \dfrac{3}{4} = \dfrac{1}{2} \times \dfrac{4}{3} = \dfrac{2}{3}$

6) $\dfrac{4}{5} \div \dfrac{1}{6} \div \dfrac{3}{4} = \dfrac{4}{5} \times \dfrac{6}{1} \times \dfrac{4}{3}$

$\Rightarrow \dfrac{32}{5} = \boxed{6\dfrac{2}{5}}$

7) $\dfrac{1}{3} \div \dfrac{1}{4} \times \dfrac{2}{5} = \dfrac{1}{3} \times \dfrac{4}{1} \times \dfrac{2}{5}$

$\Rightarrow \dfrac{8}{15}$

8) $\dfrac{6}{7} \times \dfrac{5}{8} \div \dfrac{3}{16} = \dfrac{6}{7} \times \dfrac{5}{8} \times \dfrac{16}{3} = \dfrac{20}{7}$

$= \boxed{2\dfrac{6}{7}}$

$$1)\ 2\frac{2}{3} \times 1\frac{1}{5} = \frac{8}{3} \times \frac{6^2}{5} = \frac{16}{5} = \boxed{3\frac{1}{5}}$$

$$2)\ 4\frac{2}{3} \div 5\frac{1}{6} = \frac{14}{3} \div \frac{31}{6} = \frac{14}{3} \times \frac{6^2}{31} = \boxed{\frac{28}{31}}$$

$$3)\ 7\frac{1}{2} \times 3\frac{1}{4} \div 5\frac{1}{6} = \frac{15}{2} \times \frac{13}{4} \div \frac{31}{6}$$

$$\frac{15}{2} \times \frac{13}{4} \times \frac{6^3}{31} = \frac{585}{124} = \boxed{4\frac{89}{124}}$$

$$124 \times 4 = 496$$

$$\begin{array}{r} 585 \\ -496 \\ \hline 089 \end{array}$$

1) $\frac{3}{4} \times \frac{7}{9}$

2) $\frac{5}{6} \times \frac{8}{7}$

3) $\frac{5}{11} \times \frac{17}{15} \times \frac{18}{25}$

4) $\frac{11}{13} \times \frac{117}{120} \times \frac{45}{77}$

5) $7\frac{2}{3} \times 8\frac{1}{4}$

6) $9\frac{2}{3} \times 8\frac{1}{5}$

7) $5\frac{2}{3} \times 7\frac{1}{3}$

8) $\frac{8}{4} \div \frac{5}{6}$

7) $\frac{8}{9} \div \frac{7}{5}$

8) $\frac{9}{17} \div \frac{5}{4} \div \frac{3}{4}$

9) $7\frac{1}{2} \div 5\frac{1}{3}$

10) $10\frac{1}{2} \div 5\frac{2}{3}$

11) $17\frac{2}{5} \div 1\frac{1}{4}$

12) $1\frac{1}{6} \times 3\frac{3}{4} \div 2\frac{1}{5}$

13) $1\frac{1}{2} \div 3\frac{3}{4} \times \frac{2}{5} \div 1\frac{1}{4}$