

BOOK

$$\# \quad \frac{15}{8} + \frac{7}{8} - \frac{10}{8}$$

$$= \frac{15+7-10}{8}$$

$$= \frac{22-10}{8}$$

$$= \frac{12}{8}$$

$$= \frac{3}{2}$$

$$\# \quad \text{L.C.M } 12, 15, 20, 18$$

$$12 = 2 \cdot 2 \cdot 3$$

$$15 = 3 \cdot 5$$

$$20 = 2 \cdot 2 \cdot 5$$

$$18 = 2 \cdot 3 \cdot 3$$

$$\text{L.C.M} = 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5 = 180$$

Or,

	1	2	3	4	5	6
12	12	24	36	48	60	72
15	15	30	45	60	75	90
20	20	40	60	80	100	120
18	18	36	54	72	90	108

$$\begin{aligned}
 \# \quad & 18 \frac{1}{10} - 12 \frac{14}{15} \\
 &= 18 \frac{1}{10} \cdot \frac{3}{3} - 12 \frac{14}{15} \cdot \frac{2}{2} \\
 &= 18 \frac{3}{30} - 12 \frac{28}{30} \\
 &= 17 + 1 \frac{3}{30} - 12 \frac{28}{30} \\
 &= 17 \frac{33}{30} - 12 \frac{28}{30} \\
 &= 5 \frac{5}{30} \\
 &= 5 \frac{1}{6}
 \end{aligned}$$

$$\begin{aligned}
 \# \quad & \left( \frac{7}{6} - \frac{3}{4} \right)^2 \\
 &= \left( \frac{7}{6} \cdot \frac{2}{2} - \frac{3}{4} \cdot \frac{3}{3} \right)^2 \\
 &= \left( \frac{14}{12} - \frac{9}{12} \right)^2 \\
 &= \left( \frac{5}{12} \right)^2 \\
 &= \frac{25}{144}
 \end{aligned}$$

$$\# \frac{5}{8} + \frac{11}{8} \left( \frac{8}{6} \right)$$

$$= \frac{5}{8} + \frac{11}{6}$$

$$= \frac{5}{8} \cdot \frac{3}{3} + \frac{11}{6} \cdot \frac{4}{4}$$

$$= \frac{15}{24} + \frac{44}{24}$$

$$= \frac{59}{24}$$

$$\# \left( \frac{8}{9} + \frac{1}{6} \right) \left( \frac{9}{5} \right)$$

$$= \left( \frac{8}{9} \cdot \frac{2}{2} + \frac{1}{6} \cdot \frac{3}{3} \right) \left( \frac{9}{5} \right)$$

$$= \left( \frac{16}{18} + \frac{3}{18} \right) \left( \frac{9}{5} \right)$$

$$= \frac{19}{18} \cdot \frac{9}{5}$$

$$= \frac{19}{10}$$

$$\# 75 - 2.3 (0.74 + 3.01) - (1.3)^2$$

$$= 75 - 2.3 (3.75) - 1.69$$

$$= \boxed{75 - 8.625} - 1.69$$

$$= 66.375 - 1.69$$

$$= 64.685$$

$$\# \frac{3}{4} < \frac{5}{6}$$

$$\frac{9}{12} \quad \frac{10}{12}$$

#  $0.02, 0.202, \frac{1}{500}, 0.022, 0.2002$

$$0.02 = \frac{200}{10000}$$

$$0.202 = \frac{2020}{10000}$$

$$\frac{1}{500} = 0.002 = \frac{20}{10000}$$

$$0.022 = \frac{220}{10000}$$

$$0.2002 = \frac{2002}{10000}$$

$\frac{1}{500}, 0.02, 0.022, 0.2002, 0.202$