

S1 (M) HW 22 [ALL $\times, \div, +, -$]

1) a) $\frac{7}{2} = 3\frac{1}{2}$ b) $\frac{14}{3} = 4\frac{2}{3}$ c) $\frac{9}{4} = 2\frac{1}{4}$
($7 \div 2 = 3$ r1)

2) a) $2\frac{1}{2} = \frac{5}{2}$ b) $1\frac{2}{3} = \frac{5}{3}$ c) $1\frac{1}{4} = \frac{5}{4}$
($2 \times 2 + 1 = 5$)

3) a) $\frac{6}{18} = \frac{1}{3}$ b) $\frac{4}{24} = \frac{1}{6}$ c) $\frac{8}{20} = \frac{2}{5}$ d) $\frac{24}{32} = \frac{3}{4}$
 $\div 6$ $\div 4$ $\div 4$ $\div 8$

4) a) $\frac{3}{4} + \frac{1}{3}$ b) $\frac{4}{5} - \frac{2}{3}$ c) $2\frac{3}{4} + 3\frac{1}{6}$
 $\begin{aligned} &= \frac{9}{12} + \frac{4}{12} \\ &= \frac{13}{12} \\ &= 1\frac{1}{12} \end{aligned}$ $\begin{aligned} &= \frac{12}{15} - \frac{10}{15} \\ &= \frac{2}{15} \end{aligned}$ $\begin{aligned} &= 5\frac{3}{4} + \frac{1}{6} \\ &= 5\frac{9}{12} + \frac{2}{12} \\ &= 5\frac{11}{12} \end{aligned}$

d) $5\frac{3}{4} - 1\frac{1}{3}$
 $= 4\frac{3}{4} - \frac{1}{3}$
 $= 4\frac{9}{12} - \frac{4}{12}$
 $= 4\frac{5}{12}$

5) a) $\frac{5}{6} \times \frac{2}{15}$ b) $\frac{1}{3} \div \frac{2}{9}$ c) $\frac{5}{7} \div \frac{5}{14}$ d) $1\frac{1}{5} \times 2\frac{1}{4}$
 $= \frac{10}{90}$ $= \frac{1}{3} \times \frac{9}{2}$ $= \frac{5}{7} \times \frac{14}{5}$ $= \frac{6}{5} \times \frac{9}{4}$
 $= \frac{1}{9}$ $= \frac{9}{6}$ $= \frac{70}{35} = \frac{10}{5}$ $= \frac{54}{20} = \frac{27}{10}$
 $= \frac{3}{2} = 1\frac{1}{2}$ $= \frac{2}{1} = 2$ $= 2\frac{7}{10}$