

$$2\frac{3}{7} + 3\frac{5}{7}$$

$2+3=5$ $\frac{3}{7} + \frac{5}{7} = \frac{8}{7}$

$$5\frac{8}{7} = 5\frac{38}{7} = 5\frac{5\overline{)8}}{7} = 5\frac{1\frac{1}{7}}{7}$$

$5\frac{8}{7} = 5 + 1\frac{1}{7} = \boxed{6\frac{1}{7}}$

$$9\frac{1}{6} - 3\frac{3}{6}$$

$8-3=5$ $\frac{1}{6} - \frac{3}{6} = \frac{4}{6} = \frac{2}{3}$

$$\boxed{5\frac{2}{3}}$$

1.) $2\frac{5}{8} + 3\frac{3}{8}$

5 $\frac{8}{8} = 1$

$5+1 = \boxed{6}$

2.) $4\frac{5}{6} + 7\frac{3}{6}$

11 $\frac{8}{6}$

$11 + 1\frac{1}{3} = \boxed{12\frac{1}{3}}$

$6\overline{)8}$
 -6
 2

$1\frac{2}{6} = \underline{\underline{\frac{1}{3}}}$

3.) $9\frac{4}{5} - 7\frac{3}{5}$

2 $\frac{1}{5}$

$\boxed{2\frac{1}{5}}$

4.) $8\frac{1}{4} - 4\frac{3}{4}$

3 $\frac{1}{4} - \frac{3}{4}$

$\frac{5}{4} - \frac{3}{4} = \frac{2}{4} = \frac{1}{2}$

$\boxed{3\frac{1}{2}}$

$$\frac{9}{12} - \frac{4}{6}$$

$$\frac{9}{12} - \frac{8}{12} = \boxed{\frac{1}{12}} \quad \frac{9}{12} = \frac{9}{12}$$

$$12: 12, 24, 36, 48, \dots$$

$$6: 6, 12, 18, 24, 30, \dots$$

$$\frac{4}{6} \xrightarrow{*2} \frac{8}{12}$$

$$\frac{6}{8} - \frac{2}{6}$$

$$\frac{6}{8} \xrightarrow{*3} \frac{18}{24}$$

$$\frac{2}{6} \xrightarrow{*4} \frac{8}{24}$$

$$8: 8, 16, 24, 32, \dots$$

$$6: 6, 12, 18, 24, 30, \dots$$

$$\frac{6}{8} - \frac{2}{6}$$

$$\downarrow \quad \downarrow$$
$$\frac{18}{24} - \frac{8}{24} = \frac{10}{24} \div 2 = \boxed{\frac{5}{12}}$$

$$\frac{6}{10} + \frac{2}{4}$$

$$\frac{6}{10} \xrightarrow{*2} \frac{12}{20}$$

$$\frac{2}{4} \xrightarrow{*5} \frac{10}{20}$$

$$10: 10, 20, 30, 40, \dots$$

$$4: 4, 8, 12, 16, 20, 24, \dots$$

$$\frac{6}{10} + \frac{2}{4}$$

$$\downarrow$$
$$\frac{12}{20} + \frac{10}{20} = \frac{22}{20} \div 2 = \frac{11}{10}$$

$$\frac{11}{10} = \boxed{1 \frac{1}{10}}$$

1.) $\frac{7}{8} - \frac{1}{4}$

$\frac{7}{8} = \frac{7}{8}$
 $\frac{1}{4} \xrightarrow{*2} \frac{2}{8}$
 $\frac{7}{8} - \frac{2}{8} = \boxed{\frac{5}{8}}$

2.) $\frac{5}{6} - \frac{3}{4}$

$\frac{5}{6} \xrightarrow{*2} \frac{10}{12}$
 $\frac{3}{4} \xrightarrow{*3} \frac{9}{12}$
 $\frac{10}{12} - \frac{9}{12} = \boxed{\frac{1}{12}}$

3.) $\frac{7}{10} + \frac{5}{12}$

$\frac{7}{10} \xrightarrow{*6} \frac{42}{60}$

$\frac{5}{12} \xrightarrow{*5} \frac{25}{60}$

$\frac{7}{10} + \frac{5}{12}$
 $\downarrow \quad \downarrow$

$\frac{42}{60} + \frac{25}{60} = \frac{67}{60} = \boxed{1 \frac{7}{60}}$

10: 10, 20, 30, 40, 50, 60, 70, ...

12: 12, 24, 36, 48, 60, 72, 84, ...

$10 = 5 * 2$

$12 = 6 * 2$

$5 * 2 * 6 = 60$

$\frac{1}{64} + \frac{3}{36}$

$64 = 8 * 8$
 $\quad \wedge \quad \wedge$
 $2 * 4 * 2 * 4$

~~$2 * 2 * 2 * 2 * 2 * 2$~~

$36 = 9 * 4$

$64 * 3 * 3$
 $\quad \wedge \quad \wedge$
 $3 * 3 * 2 * 2$

576

$$2\frac{1}{5} + 1\frac{7}{10}$$

$$\swarrow \quad \searrow$$

$$\frac{1}{5} + \frac{7}{10}$$

$$\frac{1}{5} = \frac{2}{10}$$

$$\frac{7}{10} = \frac{7}{10}$$

$$2\frac{2}{10} + 1\frac{7}{10}$$

$$\swarrow \quad \searrow$$

$$3 \quad \frac{9}{10}$$

$$= \boxed{3\frac{9}{10}}$$

$$6\frac{2}{3} + 4\frac{7}{8}$$

$$\swarrow \quad \searrow$$

$$\frac{2}{3} = \frac{16}{24}$$

$$\frac{7}{8} = \frac{21}{24}$$

3: 3, 6, 9, 12, 15, 18, 21, 24, ...

8: 8, 16, 24, 32, 40, ...

$$\frac{7}{8} = \frac{21}{24}$$

$$6\frac{16}{24} + 4\frac{21}{24}$$

$$\swarrow \quad \searrow$$

$$10 \quad \frac{37}{24}$$

$$\frac{37}{24} = 1\frac{13}{24}$$

$$\boxed{11\frac{13}{24}}$$

$$\begin{array}{r} 24 \overline{)37} \\ \underline{-24} \\ 13 \end{array}$$

