

Book

$$\begin{aligned}
 70) \quad & 22 \frac{5}{18} - 10 \frac{7}{9} \cdot \frac{2}{2} \\
 & = 22 \frac{5}{18} - 10 \frac{14}{18} \\
 & = 21 + 1 \frac{5}{18} - 10 \frac{14}{18} \\
 & = 21 \frac{23}{18} - 10 \frac{14}{18} \\
 & = 11 \frac{9}{18} \\
 & = 11 \frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 73) \quad & 6 - 2 \frac{5}{6} \\
 & = 6 \frac{0}{6} - 2 \frac{5}{6} \\
 & = 5 + 1 \frac{0}{6} - 2 \frac{5}{6} \\
 & = 5 \frac{6}{6} - 2 \frac{5}{6} \\
 & = 3 \frac{1}{6}
 \end{aligned}$$

$$\begin{aligned}
 78) \quad & 3 \frac{1}{6} - \frac{23}{24} \\
 & = 3 \frac{1}{6} \cdot \frac{4}{4} - \frac{23}{24} \\
 & = 3 \frac{4}{24} - \frac{23}{24} \\
 & = 2 + 1 \frac{4}{24} - \frac{23}{24} \\
 & = 2 \frac{28}{24} - \frac{23}{24} \\
 & = 2 \frac{5}{24}
 \end{aligned}$$

$$\begin{aligned}
 82) \quad & 9 \frac{4}{5} + 2 \frac{3}{10} \\
 & = 9 \frac{4}{5} \cdot \frac{2}{2} + 2 \frac{3}{10} \\
 & = 9 \frac{8}{10} + 2 \frac{3}{10} \\
 & = 11 \frac{11}{10} \\
 & = 11 + 1 \frac{1}{10} \\
 & = 12 \frac{1}{10}
 \end{aligned}$$

$$\begin{aligned}
 96) \quad & 4 \frac{4}{5} + 2 \frac{1}{4} - 1 \frac{3}{10} \\
 & = 4 \frac{4}{5} \cdot \frac{4}{4} + 2 \frac{1}{4} \cdot \frac{5}{5} - 1 \frac{3}{10} \\
 & = 4 \frac{16}{20} + 2 \frac{5}{20} - 1 \frac{3}{10} \\
 & = 6 \frac{21}{20} - 1 \frac{3}{10} \\
 & = 7 \frac{1}{20} - 1 \frac{3}{10} \cdot \frac{2}{2} \\
 & = 7 \frac{1}{20} - 1 \frac{6}{20}
 \end{aligned}$$

$$\begin{aligned}
 & = 6 \frac{21}{20} - 1 \frac{6}{20} \\
 & = 5 \frac{15}{20} \\
 & = 5 \frac{3}{4}
 \end{aligned}$$

or,

$$\begin{aligned} & 4\frac{4}{5} + 2\frac{1}{4} - 1\frac{3}{10} \\ &= 4\frac{4}{5} \cdot \frac{4}{4} + 2\frac{1}{4} \cdot \frac{5}{5} - 1\frac{3}{10} \cdot \frac{2}{2} \\ &= 4\frac{16}{20} + 2\frac{5}{20} - 1\frac{6}{20} \\ &= 5\frac{15}{20} \\ &= 5\frac{3}{4} \end{aligned}$$

### Practice Assessment unit 2

$$\begin{aligned} 15) & 5\frac{1}{2} + 3\frac{1}{3} \\ &= 5\frac{1}{2} \cdot \frac{3}{3} + 3\frac{1}{3} \cdot \frac{2}{2} \\ &= 5\frac{3}{6} + 3\frac{2}{6} \\ &= 8\frac{5}{6} \end{aligned}$$

$$\begin{aligned} 16) & 4\frac{6}{7} + 5\frac{1}{2} \\ &= 4\frac{6}{7} \cdot \frac{2}{2} + 5\frac{1}{2} \cdot \frac{7}{7} \\ &= 4\frac{12}{14} + 5\frac{7}{14} \\ &= 9\frac{19}{14} \\ &= 10\frac{5}{14} \end{aligned}$$

$$\begin{aligned} 17) & 3\frac{1}{2} - 2\frac{2}{3} \\ &= 3\frac{1}{2} \cdot \frac{3}{3} - 2\frac{2}{3} \cdot \frac{2}{2} \\ &= 3\frac{3}{6} - 2\frac{4}{6} \\ &= 2 + 1\frac{3}{6} - 2\frac{4}{6} \\ &= 2\frac{9}{6} - 2\frac{4}{6} \\ &= \frac{5}{6} \end{aligned}$$

$$\begin{aligned} 18) & 8\frac{2}{15} - 6\frac{1}{2} \\ &= 8\frac{2}{15} \cdot \frac{2}{2} - 6\frac{1}{2} \cdot \frac{15}{15} \\ &= 8\frac{4}{30} - 6\frac{15}{30} \\ &= 7 + 1\frac{4}{30} - 6\frac{15}{30} \\ &= 7\frac{34}{30} - 6\frac{15}{30} \\ &= 1\frac{19}{30} \end{aligned}$$

$$31) \frac{5}{12} + \frac{11}{12} - \frac{7}{12}$$

$$= \frac{9}{12}$$

$$= \frac{3}{4}$$

$$33) \frac{11}{12} - \frac{1}{4} - \frac{1}{3}$$

$$= \frac{11}{12} - \frac{1}{4} \cdot \frac{3}{3} - \frac{1}{3} \cdot \frac{4}{4}$$

$$= \frac{11}{12} - \frac{3}{12} - \frac{4}{12}$$

$$= \frac{4}{12}$$

$$= \frac{1}{3}$$

$$32) \frac{9}{10} + \frac{3}{10} - \frac{7}{10}$$

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

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

$$34) 4\frac{3}{4} + 8\frac{2}{3} + 2\frac{1}{2} + 1\frac{5}{12}$$

$$= 4\frac{3}{4} \cdot \frac{3}{3} + 8\frac{2}{3} \cdot \frac{4}{4} + 2\frac{1}{2} \cdot \frac{6}{6} + 1\frac{5}{12}$$

$$= 4\frac{9}{12} + 8\frac{8}{12} + 2\frac{6}{12} + 1\frac{5}{12}$$

$$= 15\frac{28}{12}$$

$$= 15\frac{7}{3}$$

$$= 15 + 2\frac{1}{3}$$

$$= 17\frac{1}{3}$$