

Fraction Self - Assessment

Show all work. Change all answers to mixed numbers.

$$\textcircled{1} \quad -4\frac{1}{2} + \frac{2}{5} = \text{LCD}$$

$$\begin{array}{r} 5 \times 9 \\ 5 \times 2 \\ -4\frac{5}{10} + \frac{4}{10} = -\frac{39}{10} = -3\frac{9}{10} \end{array}$$

$$\textcircled{2} \quad 2\frac{1}{3} - \frac{3}{4} = \text{LCD: 12}$$

$$\begin{array}{r} 4 \times 7 \\ 4 \times 3 \\ \frac{28}{12} - \frac{9}{12} = \frac{19}{12} = 1\frac{7}{12} \end{array}$$

$$\textcircled{3} \quad 2\frac{1}{3} \times -5 =$$

$$\begin{array}{r} 7 \times -5 \\ 3 \times 1 \\ -11\frac{2}{3} \end{array}$$

$$\textcircled{4} \quad -6 \div -4\frac{1}{2} =$$

$$\begin{array}{r} -6 \div -9 \\ -\frac{6}{1} \div \frac{9}{2} = \frac{12}{9} = 1\frac{3}{9} = 1\frac{1}{3} \end{array}$$

$$\textcircled{5} \quad 2\frac{1}{3} + \frac{-5}{3} = \text{LCD}$$

$$\begin{array}{r} 7 \times 1 \\ 7 \times (-5) \\ \frac{7}{3} + \left(\frac{-15}{3}\right) = -\frac{8}{3} = -2\frac{2}{3} \end{array}$$

$$\textcircled{6} \quad -6 + 4\frac{1}{2} = \text{LCD}$$

$$\begin{array}{r} -6 \times 2 \\ \frac{-12}{2} + \frac{9}{2} = \frac{-3}{2} = -1\frac{1}{2} \end{array}$$

$$\textcircled{7} \quad 4\frac{1}{2} \times \frac{-2}{5} =$$

$$\begin{array}{r} 9 \times -2 \\ 2 \times 5 \\ -1\frac{8}{10} = -1\frac{4}{5} \end{array}$$

$$\textcircled{8} \quad -2\frac{1}{3} \div \frac{3}{4} =$$

$$\begin{array}{r} -7 \div 3 \\ \frac{-7}{3} \div \frac{3}{4} \\ -\frac{7}{3} \times \frac{4}{3} = -\frac{28}{9} = -3\frac{1}{9} \end{array}$$

$$\textcircled{9} \quad -\frac{2 \times 4}{5 \times 4} + \frac{3 \times 5}{4 \times 5} = \frac{\text{LCD}}{20}$$

$$\frac{-8}{20} + \frac{15}{20} = \frac{7}{20}$$

$$\textcircled{10} \quad \frac{4 \times -2}{4 \times 5} - \frac{3 \times 5}{4 \times 5} = \frac{\text{LCD}}{20}$$

$$\frac{-8}{20} - \frac{15}{20} = \frac{-8}{20} + \left(\frac{-15}{20}\right) = \frac{-23}{20}$$

$$\textcircled{11} \quad -\frac{2}{5} \times \frac{3}{4} =$$

$$\frac{-6}{20} = \frac{-3}{10}$$

$$\textcircled{12} \quad -\frac{2}{5} \div \frac{3}{4} =$$

$$\frac{-2}{5} \cdot \frac{4}{3} = \frac{-8}{15}$$

$$\textcircled{13} \quad 4\frac{1}{2} + -2\frac{1}{3} = \frac{\text{LCD}}{6}$$

$$\frac{3 \times 9}{3 \times 2} + \left(\frac{-7 \times 2}{3 \times 2}\right)$$

$$\frac{27}{6} + \left(\frac{-14}{6}\right) = \frac{13}{6} = 2\frac{1}{6}$$

$$\textcircled{14} \quad -4\frac{1}{2} - 2\frac{1}{3} = \frac{\text{LCD}}{6}$$

$$\frac{-9}{2} + \left(\frac{-7}{3}\right)$$

$$\frac{-27}{6} + \left(\frac{-14}{6}\right) = \frac{-41}{6} = -6\frac{5}{6}$$

$$\textcircled{15} \quad -4\frac{1}{2} \times 2\frac{1}{3} =$$

$$\frac{-9}{2} \cdot \frac{7}{3} = \frac{-63}{6}$$

$$-10\frac{3}{6} = -10\frac{1}{2}$$

$$\textcircled{16} \quad -4\frac{1}{2} \div -2\frac{1}{3} =$$

$$\frac{-9}{2} \div \left(\frac{-7}{3}\right)$$

$$\frac{-9}{2} \cdot \frac{-3}{7} = \frac{27}{14} = 1\frac{13}{14}$$