


Maylin Getfield Fraction Quiz

$$1) \frac{3}{5} + \frac{4}{3} =$$

$$= \frac{3 \times 3}{5 \times 3} + \frac{4 \times 5}{3 \times 5} =$$

$$\frac{9}{15} + \frac{20}{15} = \frac{9+20}{15}$$

$$= \frac{29}{15} = 1\frac{14}{15}$$

$$2) \left(\frac{2}{3}\right) \left(\frac{3}{4}\right) =$$

$$= \frac{2 \times 3}{3 \times 4} =$$

$$\frac{6}{12} = \frac{6 \div 6}{12 \div 6} =$$

$$\frac{1}{2} = 0.5$$

$$3) \frac{3}{4} - \frac{2}{3} =$$

$$= \frac{3 \times 3}{4 \times 3} - \frac{2 \times 4}{3 \times 4}$$

$$= \frac{9}{12} - \frac{8}{12} = \frac{9-8}{12}$$

$$= \frac{1}{12} = 0.08\bar{3}$$

$$4) \frac{4}{5} + \frac{3}{5} =$$

$$= \frac{4+3}{5}$$

$$= \frac{7}{5} = 1\frac{2}{5}$$

$$5) \frac{3}{4}(\underline{5}) =$$

$$= \frac{3 \times 5}{4 \times 1}$$

$$= \frac{15}{4} = 3\frac{3}{4}$$

$$6) \left(\frac{3}{4}\right)^2 =$$

$$= \left(\frac{3}{4}\right)\left(\frac{3}{4}\right)$$

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

$$= \frac{9}{4} = 2\frac{1}{4}$$

$$7) \frac{1}{4} \left(\frac{2}{3}\right)^2 =$$

$$= \frac{2 \times 2}{3} = \frac{4}{3}$$

$$= \frac{1}{3} = \frac{1}{4} \left(\frac{1}{3}\right)$$

$$= \frac{1}{4} \times \frac{1}{3}$$

$$\frac{1 \times 1}{4 \times 3} = \frac{1}{12}$$

$$\frac{4 \times 3}{4 \div 4} = \frac{4}{12}$$

$$\frac{4 \div 4}{12 \div 4} = \frac{1}{3}$$

$$8) \frac{2}{7} \times \frac{3}{5}$$

$$= \frac{2 \times 3}{7 \times 5}$$

$$= \frac{6}{35} = 0.24$$

$$9) 2\frac{3}{8} + 3\frac{2}{5}$$

$$= (2+3) + \frac{3+2}{8 \times 5}$$

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

$$= 5 + \frac{15}{40} + \frac{16}{40}$$

$$= 5 + \frac{15+16}{40}$$

$$= 5 + \frac{31}{40} = 5\frac{31}{40}$$

$$4) 1\frac{3}{5} \times 2\frac{1}{8}$$

$$= \frac{8 \times 21}{8 \times 8}$$

$$= \frac{8 \times 21}{5 \times 8}$$

$$= \frac{168}{40} = \frac{168 \div 8}{40 \div 8} = \frac{21}{5} = 4\frac{1}{5}$$

$$\textcircled{12} 1\frac{3}{5} + 2\frac{1}{8}$$

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

$$= 3 + \frac{3 \times 8}{5 \times 8} + \frac{1 \times 5}{8 \times 5}$$

$$= 3 + \frac{24}{40} + \frac{5}{40}$$

$$= 3 + \frac{24+5}{40} =$$

$$= 3 + \frac{29}{40} = \textcircled{3\frac{29}{40}}$$

$$\textcircled{13} \frac{7}{3} - \frac{3}{8} =$$

$$= \frac{7 \times 8}{3 \times 8} - \frac{3 \times 3}{8 \times 3}$$

$$= \frac{56}{24} - \frac{9}{24}$$

$$= \frac{56-9}{24}$$

$$= \frac{47}{24} = 1\frac{23}{24}$$

$$\textcircled{14} 2\frac{5}{8} - 4\frac{3}{8}$$

$$= (2-4) - \left(\frac{5}{8} - \frac{3}{8}\right)$$

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

$$= -2 + \frac{2}{8}$$

$$= -2 + \frac{1}{4} = \textcircled{-1\frac{3}{4}}$$

$$\textcircled{15} 4\frac{5}{8} + 2\frac{3}{8}$$

$$= (4+2) + \left(\frac{5}{8} + \frac{3}{8}\right)$$

$$= 6 + \frac{5+3}{8}$$

$$= 6 + \frac{8}{8} = 6+1 = \textcircled{7}$$

$$\textcircled{16} 5\frac{2}{8} - 3\frac{10}{8}$$

$$= (5-3) + \left(\frac{2}{8} - \frac{10}{8}\right)$$

$$= 2 + \frac{2-10}{8} = 2 + \frac{-8}{8} = 2 - 1 = 1 = \textcircled{1}$$

$$\begin{aligned}
 (17) \quad & 5\frac{3}{4} + 7\frac{5}{6} \\
 & = (5+7) + \left(\frac{3}{4} + \frac{5}{6}\right) \\
 & = 12 + \frac{3 \times 3}{4 \times 3} + \frac{5 \times 2}{6 \times 2} \\
 & = 12 + \frac{9}{12} + \frac{10}{12} \\
 & = 12 + \frac{19}{12} = 12 + 1\frac{7}{12} = 13\frac{7}{12}
 \end{aligned}$$

$$\begin{aligned}
 (18) \quad & 7\frac{1}{6} - 5\frac{3}{4} = \\
 & = (7-5) + \left(\frac{1}{6} - \frac{3}{4}\right) \\
 & = 2 + \frac{1 \times 2}{6 \times 2} - \frac{3 \times 3}{4 \times 3} \\
 & = 2\frac{2}{12} - \frac{9}{12} \\
 & = 2 + \frac{2-9}{12} = 2 + \frac{-7}{12} = 1\frac{5}{12}
 \end{aligned}$$

$$\begin{aligned}
 (19) \quad & \frac{1}{2} - \frac{5}{8} = \\
 & = \frac{1 \times 4}{2 \times 4} + \frac{5}{8} \\
 & = \frac{4}{8} + \frac{5}{8} = \frac{9}{8} = 1\frac{1}{8}
 \end{aligned}$$

$$\textcircled{20} \frac{11}{18} + \frac{17}{20} =$$

$$= \frac{11 \times 10}{18 \times 10} + \frac{17 \times 9}{20 \times 9}$$

$$= \frac{110}{180} + \frac{153}{180}$$

$$= \frac{110 + 153}{180} = \frac{263}{180} = \textcircled{1 \frac{83}{180}}$$

$$\textcircled{21} \frac{43}{140} - \frac{4}{42}$$

$$= \frac{43 \times 3}{140 \times 3} - \frac{5 \times 10}{42 \times 10}$$

$$= \frac{129 - 50}{420}$$

$$= \frac{79}{420}$$

$$\textcircled{22} 57\frac{3}{8} - 43\frac{1}{3} =$$

$$= (57 - 43) + \left(\frac{3}{8} - \frac{1}{3} \right)$$

$$= 14 + \frac{3 \times 3}{8 \times 3} - \frac{1 \times 8}{3 \times 8} =$$

$$= 14 + \frac{9 - 8}{24} = 14 + \frac{1}{24} = \textcircled{14\frac{1}{24}}$$

