

$$83. \frac{3}{4} \cdot \frac{1}{2} = \frac{3 \cdot 1}{4 \cdot 2} = \frac{3}{8}$$

$$84. \frac{2}{5} \cdot \frac{1}{6} = \frac{\cancel{2} \cdot 1}{3 \cdot 6 \cdot 5} = \frac{1}{3 \cdot 5} = \frac{1}{15}$$

$$85. \frac{5}{7} \cdot \frac{6}{11} = \frac{5 \cdot 6}{7 \cdot 11} = \frac{30}{77}$$

$$86. \frac{20}{19} \cdot \frac{19}{21} = \frac{20 \cdot \cancel{19}}{\cancel{19} \cdot 21} = \frac{20}{21}$$

$$87. -\frac{8}{12} \cdot \frac{2}{4} = \frac{-\cancel{8} \cdot 2}{6 \cdot \cancel{2} \cdot 4} = \frac{-2}{3 \cdot 6} = \frac{-1}{3}$$

$$88. \frac{12}{7} \cdot \frac{3}{5} = \frac{12 \cdot 3}{7 \cdot 5} = \frac{36}{5}$$

$$89. -\frac{6}{7} \cdot \frac{3}{24} = \frac{-\cancel{6} \cdot 3}{4 \cdot \cancel{24} \cdot 1} = \frac{-3}{4}$$

$$90. \frac{1}{3} \cdot 1 \cdot \frac{1}{6} = \frac{1 \cdot (1 \cdot 6 + 1)}{3 \cdot 6} = \frac{1 \cdot 7}{3 \cdot 6} = \frac{7}{18}$$

$$91. 1\frac{2}{3} \cdot 2\frac{4}{5} = \frac{(1 \cdot 3 + 2)}{3} \cdot \frac{(2 \cdot 5 + 4)}{5} = \frac{5}{3} \cdot \frac{14}{5} = \frac{5 \cdot 14}{3 \cdot 5} = \frac{14}{3}$$

$$92. \frac{9}{8} \cdot -3\frac{1}{2} = \frac{9}{8} \cdot -\frac{(3 \cdot 2 + 1)}{2} = \frac{9}{8} \cdot -\frac{7}{2} = -\frac{9 \cdot 7}{8 \cdot 2} = -\frac{63}{16}$$

$$93. \frac{2}{3} \cdot \frac{3}{8} \cdot \frac{5}{7} = \frac{\cancel{2} \cdot \cancel{3} \cdot 5}{\cancel{3} \cdot 8 \cdot 7} = \frac{5}{28}$$

$$94. \frac{2}{5} \cdot \frac{1}{6} \cdot \frac{2}{3} = \frac{\cancel{2} \cdot 1 \cdot 2}{5 \cdot 6 \cdot \cancel{3}} = \frac{2}{45}$$

$$95. \frac{1}{2} \cdot 2 \cdot \frac{1}{4} \cdot 1 \cdot \frac{3}{5} = \frac{1 \cdot (\cancel{2} \cdot 4 + 1) \cdot (1 \cdot 5 + 3)}{2 \cdot 4 \cdot 5} = \frac{1 \cdot 9 \cdot 8}{2 \cdot 4 \cdot 5} = \frac{72}{50} = \frac{36}{25}$$

$$96. \frac{1}{3} \cdot 1 \cdot \frac{1}{9} \cdot -\frac{3}{8} \cdot -\frac{5}{7} = \frac{1 \cdot (1 \cdot 9 + 1) \cdot 5}{3 \cdot 9 \cdot 8 \cdot 7} = \frac{1 \cdot 10 \cdot 5}{3 \cdot 9 \cdot 8 \cdot 7} = \frac{50}{1512} = \frac{25}{756}$$

$$97. \frac{1}{3} \cdot 1 \cdot \frac{1}{7} \cdot -\frac{3}{8} \cdot -\frac{10}{2} = \frac{1 \cdot (1 \cdot 7 + 1) \cdot 10}{3 \cdot 8 \cdot 7 \cdot 2} = \frac{1 \cdot 8 \cdot 3 \cdot 10}{3 \cdot 7 \cdot 8 \cdot 2} = \frac{240}{336} = \frac{5}{7}$$

$$98. \frac{1}{3} \cdot 1 \cdot \frac{1}{6} \cdot \frac{3}{5} \cdot -4\frac{3}{5} \cdot \frac{5}{7} = \frac{1 \cdot (1 \cdot 6 + 1) \cdot 3 \cdot 5 \cdot (-4 \cdot 5 + 3) \cdot 5}{3 \cdot 6 \cdot 5 \cdot 7} = \frac{1 \cdot 7 \cdot 3 \cdot 5 \cdot (-23 \cdot 5)}{3 \cdot 6 \cdot 5 \cdot 7} = \frac{-1 \cdot 7 \cdot 3 \cdot 23 \cdot 5}{3 \cdot 6 \cdot 5 \cdot 7} = -\frac{7}{5}$$

$$99. \frac{1}{4} \div \frac{1}{2} = \frac{1}{4} \cdot \frac{2}{1} = \frac{2}{4} = \frac{1}{2}$$

$$100. \frac{1}{3} \div \frac{8}{9} = \frac{1}{3} \cdot \frac{9}{8} = \frac{\cancel{3} \cdot 9}{\cancel{3} \cdot 8} = \frac{3}{8}$$

$$101. \frac{1}{19} \div \frac{1}{19} = \frac{1}{19} \cdot \frac{19}{1} = \frac{19}{19} = 1$$

$$102. \frac{2}{43} \div \frac{5}{43} = \frac{2}{43} \cdot \frac{43}{5} = \frac{2 \cdot \cancel{43}}{\cancel{43} \cdot 5} = \frac{2}{5}$$

$$103. \frac{5}{8} \div \frac{5}{16} = \frac{5}{8} \cdot \frac{16}{5} = \frac{5 \cdot \cancel{16}}{\cancel{5} \cdot 8} = \frac{2}{1} = 2$$

$$104. \frac{1}{2} \div 2\frac{1}{3} = \frac{1}{2} \div \frac{(2 \cdot 3 + 1)}{3} = \frac{1}{2} \div \frac{7}{3} = \frac{1}{2} \cdot \frac{3}{7} = \frac{3}{14}$$

$$105. \frac{8}{7} \div -\frac{12}{11} = \frac{8}{7} \cdot -\frac{11}{12} = \frac{\cancel{8} \cdot 11}{7 \cdot \cancel{12}} = \frac{-2 \cdot 11}{7 \cdot 3} = -\frac{22}{21}$$

$$106. \frac{8}{7} \div \frac{12}{11} = \frac{8}{7} \cdot \frac{11}{12} = \frac{2 \cdot 11}{7 \cdot 3} = \frac{22}{21}$$

$$107. 3\frac{1}{4} \div 2\frac{2}{8} = \frac{(3 \cdot 4 + 1)}{4} \div \frac{(2 \cdot 8 + 2)}{8} = \frac{13}{4} \div \frac{18}{8} = \frac{13}{4} \cdot \frac{8}{18} = \frac{13}{9}$$

$$108. -1\frac{3}{10} \div -1\frac{1}{4} = -\frac{(1 \cdot 10 + 3)}{10} \div -\frac{(1 \cdot 4 + 1)}{4} = -\frac{13}{10} \div -\frac{5}{4} = -\frac{13}{10} \cdot -\frac{4}{5} = \frac{+13 \cdot 4}{5 \cdot 10 \cdot 5} = \frac{13 \cdot 2}{5 \cdot 5} = \frac{26}{25}$$

$$109. \frac{3}{7} \div \frac{1}{9} = \frac{3}{7} \div \frac{1}{9} = \frac{3}{7} \cdot \frac{9}{1} = 27$$

$$110. \frac{1}{2} \div \frac{5}{7} = \frac{1}{2} \div \frac{5}{7} = \frac{1}{2} \cdot \frac{7}{5} = \frac{7}{10}$$

$$111. \left(\frac{1}{\frac{6}{3}}\right) = \frac{1 \cdot 3}{6 \cdot 2} = \frac{1}{2 \cdot 2} = \frac{1}{4}$$

$$112. \frac{6}{\frac{3}{4}} = \left(\frac{6}{\frac{3}{4}}\right) = \frac{2 \cdot 4}{3 \cdot 1} = \frac{2 \cdot 4}{1} = 8$$

$$113. \frac{6}{\frac{13}{2}} = \left(\frac{6}{\frac{13}{2}}\right) = \frac{3 \cdot 1}{13 \cdot 2} = \frac{3 \cdot 1}{13 \cdot 1} = \frac{3}{13}$$

$$114. \left(\frac{\frac{5}{4}}{\frac{3}{2}}\right) = \frac{5 \cdot 3}{8 \cdot 4} = \frac{15}{32}$$

$$115. \frac{2}{\frac{7}{1}} = \frac{\frac{2}{1}}{\frac{7}{2}} = \left(\frac{\frac{2}{1}}{\frac{7}{2}}\right) = \frac{2 \cdot 2}{3 \cdot 7} = \frac{4}{21}$$

$$116. \frac{\frac{3}{8}}{\frac{5}{2}} = \left(\frac{\frac{3}{8}}{\frac{5}{2}}\right) = \frac{3 \cdot 1}{5 \cdot 8} = \frac{3}{40}$$

$$117. \frac{7}{1\frac{3}{5}} = \frac{\frac{7}{1}}{\frac{7 \cdot 5 + 3}{5}} = \left(\frac{\frac{7}{1}}{\frac{38}{5}}\right) = \frac{5 \cdot 7}{8 \cdot 7} = \frac{35}{8}$$

$$118. \frac{2\frac{6}{7}}{4\frac{1}{4}} = \frac{\frac{2 \cdot 7 + 6}{7}}{\frac{4 \cdot 4 + 1}{4}} = \left(\frac{\frac{20}{7}}{\frac{17}{4}}\right) = \frac{20 \cdot 4}{7 \cdot 17} = \frac{80}{119}$$