פתרון שגיון

**119.** $\frac{2}{6} \div \frac{1}{4} \cdot \frac{1}{5} = \frac{2}{6} \cdot \frac{4}{1} \cdot \frac{1}{5} = \frac{2 \cdot 4}{3 \cdot 5} = \frac{4}{15}$

**120.** $\dfrac{\frac{7}{8}+\frac{1}{16}}{\frac{5}{2}-\frac{2}{5}} = \dfrac{\frac{7 \cdot 2}{8 \cdot 2}+\frac{1}{16}}{\frac{5 \cdot 5}{2 \cdot 5}-\frac{2 \cdot 2}{5 \cdot 2}} = \dfrac{\frac{14}{16}+\frac{1}{16}}{\frac{25}{10}-\frac{4}{10}} = \dfrac{\frac{15}{16}}{\frac{21}{10}} = \frac{15 \cdot 10}{16 \cdot 21} = \frac{5 \cdot 5}{8 \cdot 7} = \frac{25}{56}$

**121.** $\dfrac{\frac{6}{9}}{\frac{2}{7}} + \dfrac{\frac{3}{2}}{\frac{15}{2}} = \frac{6 \cdot 7}{9 \cdot 2} + \frac{15 \cdot 3}{2 \cdot 1} = \frac{2}{3 \cdot 2} + \frac{45}{2} = \frac{2}{6} + \frac{45 \cdot 3}{2 \cdot 3} = \frac{2}{6} + \frac{135}{6} = \frac{137}{6} \left(22\frac{5}{6}\right)$

**122.** $\dfrac{2\frac{1}{2}-\frac{1}{5}}{\frac{1}{7}+\frac{2}{5}} = \dfrac{\frac{(2 \cdot 2+1)}{2}-\frac{1}{5}}{\frac{1}{7}+\frac{2}{5}} = \dfrac{\frac{5}{2}-\frac{1}{5}}{\frac{1}{7}+\frac{2}{5}} = \dfrac{\frac{5 \cdot 5}{2 \cdot 5}-\frac{1 \cdot 2}{5 \cdot 2}}{\frac{1 \cdot 5}{7 \cdot 5}+\frac{2 \cdot 7}{5 \cdot 7}} = \dfrac{\frac{25}{10}-\frac{2}{10}}{\frac{5}{35}+\frac{14}{35}} = \dfrac{\frac{23}{10}}{\frac{19}{35}} = \frac{23 \cdot 35}{10 \cdot 19} = \frac{23 \cdot 7}{2 \cdot 19} = \frac{161}{38} \left(4\frac{9}{38}\right)$

**123.** $\dfrac{\frac{10}{7}}{\frac{5}{7}} - \left(\frac{9}{4}+\frac{11}{12}\right) = \dfrac{\frac{10}{7}}{\frac{5}{7}} - \left(\frac{9 \cdot 3}{4 \cdot 3}+\frac{11}{12}\right) = \frac{10 \cdot 7}{5 \cdot 7} - \left(\frac{27}{12}+\frac{11}{12}\right) = 2 - \frac{38}{12} = \frac{2}{1} - \frac{19}{6} = \frac{2 \cdot 6}{1 \cdot 6} - \frac{19}{6} = \frac{12}{6} - \frac{19}{6}$

$= \frac{12-19}{6} = -\frac{7}{6} \left(-1\frac{1}{6}\right)$

**124.** $\left(\frac{7}{14}-\frac{6}{8}\right) \cdot \left(\frac{7}{10}+\frac{4}{5}\right) \cdot \left(\frac{1}{8}+\frac{13}{24}\right) = \left(\frac{7 \cdot 4}{14 \cdot 4}-\frac{6 \cdot 7}{8 \cdot 7}\right) \cdot \left(\frac{7}{10}+\frac{4 \cdot 2}{5 \cdot 2}\right) \cdot \left(\frac{1 \cdot 3}{8 \cdot 3}+\frac{13}{24}\right) = \left(\frac{28}{56}-\frac{42}{56}\right) \cdot \left(\frac{7}{10}+\frac{8}{10}\right) \cdot \left(\frac{3}{24}+\frac{13}{24}\right)$

$= -\frac{14}{56} \cdot \frac{15}{10} \cdot \frac{16}{24} = -\frac{1}{4} \cdot \frac{3}{2} \cdot \frac{2}{3} = -\frac{1}{4}$

**125.** $\dfrac{\frac{9}{21}}{\frac{6}{14}} \cdot \dfrac{\frac{15}{10}}{\frac{5}{7}} = \frac{9 \cdot 14}{6 \cdot 21} \cdot \frac{15 \cdot 1}{10 \cdot 5} = \frac{9 \cdot 14 \cdot 15 \cdot 1}{6 \cdot 21 \cdot 10 \cdot 5} = \frac{3 \cdot 3 \cdot 2 \cdot 7 \cdot 3 \cdot 5}{3 \cdot 2 \cdot 3 \cdot 7 \cdot 2 \cdot 5 \cdot 8} = \frac{3}{2 \cdot 5} = \frac{3}{10}$

**126.** $\left(\frac{3}{4} \div \frac{1}{2}\right) \div \frac{6}{7} - \frac{20}{60} \cdot \frac{3}{5} = \left(\frac{3}{4} \cdot \frac{2}{1}\right) \div \frac{6}{7} - \frac{20}{60} \cdot \frac{3}{5} = \frac{3}{2} \div \frac{6}{7} - \frac{1}{3} \cdot \frac{3}{5} = \frac{3}{2} \cdot \frac{7}{6} - \frac{1}{5}$

$= \frac{7}{2 \cdot 2} - \frac{1}{5} = \frac{7}{4} - \frac{1}{5} = \frac{7 \cdot 5}{4 \cdot 5} - \frac{1 \cdot 4}{5 \cdot 4} = \frac{35}{20} - \frac{4}{20} = \frac{31}{20} \left(1\frac{11}{20}\right)$

**127.** $\left(\frac{2}{18}+\frac{6}{27}\right) \cdot \dfrac{1\frac{1}{4}+2\frac{1}{3}}{1\frac{1}{3}-\frac{4}{2}} = \left(\frac{1}{9}+\frac{2}{9}\right) \cdot \dfrac{\frac{(1 \cdot 4+1)}{4}+\frac{(2 \cdot 5+1)}{5}}{\frac{(1 \cdot 3+1)}{3}-\frac{3}{2}} = \frac{3}{9} \cdot \left[\dfrac{\frac{5 \cdot 5}{4}+\frac{11}{5}}{\frac{4}{3}-\frac{2 \cdot 3}{1 \cdot 3}}\right] = \frac{1}{3} \cdot \left[\dfrac{\frac{5 \cdot 5}{4 \cdot 5}+\frac{11 \cdot 4}{5 \cdot 4}}{\frac{4}{3}-\frac{6}{3}}\right]$

$= \frac{1}{3} \cdot \left[\dfrac{\frac{25}{20}+\frac{44}{20}}{\frac{4}{3}-\frac{6}{3}}\right] = \frac{1}{3} \cdot \left(\dfrac{\frac{69}{20}}{-\frac{2}{3}}\right) = \frac{1}{3} \cdot -\frac{69 \cdot 3}{2 \cdot 20} = -\frac{69}{40} \left(-1\frac{29}{40}\right)$