

N° 213  $1 + \frac{1}{2} \cdot \left\{ 1 + 0,5 \cdot \left[ \left( 0,4\overline{16} + 0,5\overline{83} - 0,3 \right) \cdot 3 \cdot \left( 1 - \frac{1}{2} \right)^2 \right]^2 : \frac{1}{8} \right\} \cdot 0,4 + 0,6 =$

$$\left[ \begin{array}{l} 0,5 = \frac{1}{2} \quad / \quad 0,4\overline{16} = \frac{416-41}{900} = \frac{375}{900} = \frac{75}{180} = \frac{15}{36} = \frac{5}{12} \quad / \quad 0,6 = \frac{6}{10} = \frac{3}{5} \\ 0,5\overline{83} = \frac{583-58}{900} = \frac{525}{900} = \frac{105}{180} = \frac{35}{60} = \frac{7}{12} \quad / \quad 0,3 = \frac{3}{10} = \frac{1}{3} \quad / \quad 0,4 = \frac{4}{10} = \frac{2}{5} \end{array} \right.$$

$$= 1 + \frac{1}{2} \cdot \left\{ 1 + \frac{1}{2} \cdot \left[ \left( \frac{5}{12} + \frac{7}{12} - \frac{1}{3} \right) \cdot 3 \cdot \left( 1 - \frac{1}{2} \right)^2 \right]^2 \cdot \frac{8}{1} \right\} \cdot \frac{2}{5} + \frac{3}{5} =$$

$$= 1 + \frac{1}{2} \cdot \left\{ 1 + \frac{1}{2} \cdot \left[ \left( 1 - \frac{1}{3} \right) \cdot 3 \cdot \left( \frac{1}{2} \right)^2 \right]^2 \cdot \frac{8}{1} \right\} \cdot \frac{2}{5} + \frac{3}{5} =$$

$$= 1 + \frac{1}{2} \cdot \left\{ 1 + \frac{1}{2} \cdot \left[ \frac{2}{3} \cdot 3 \cdot \frac{1}{4} \right]^2 \cdot \frac{8}{1} \right\} \cdot \frac{2}{5} + \frac{3}{5} =$$

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

$$= 1 + \frac{1}{2} \cdot \left\{ 1 + \frac{1}{2} \cdot \frac{1}{4} \cdot \frac{8}{1} \right\} \cdot \frac{2}{5} + \frac{3}{5} =$$

$$= 1 + \frac{1}{2} \cdot 2 \cdot \frac{2}{5} + \frac{3}{5} =$$

$$= \frac{5+2+3}{5} = \frac{10}{5} = 2$$

N° 226  $\left( 1,2\overline{6} + 1,3 \right) \cdot \left( 0,2\overline{7} - \frac{1}{7} \right) + \left( 1 - 0,2\overline{4} \right) \cdot 0,3\overline{6}^2 \cdot \left( 32,7 - 1,1\overline{7}^2 \right) : \left( 0,6\overline{8}^2 \cdot 6,8 \right) =$

$$\left[ \begin{array}{l} 1,2\overline{6} = \frac{126-12}{90} = \frac{114}{90} = \frac{38}{30} = \frac{19}{15} \quad / \quad 1,3 = \frac{13}{10} \quad / \quad 0,2\overline{7} = \frac{27}{99} = \frac{9}{33} = \frac{3}{11} \\ 0,2\overline{4} = \frac{24-2}{90} = \frac{22}{90} = \frac{11}{45} \quad / \quad 0,3\overline{6} = \frac{36}{99} = \frac{12}{33} = \frac{4}{11} \\ 32,7 = \frac{327}{10} = \frac{65}{2} \quad / \quad 1,1\overline{7} = \frac{117}{10} = \frac{7}{2} \quad / \quad 0,6\overline{8} = \frac{68}{100} = \frac{34}{50} = \frac{17}{25} \end{array} \right.$$

$$= \left( \frac{19}{15} + \frac{13}{10} \right) \cdot \left( \frac{3}{11} - \frac{1}{7} \right) + \left( 1 - \frac{11}{45} \right) \cdot \left( \frac{4}{11} \right)^2 \cdot \left( \frac{65}{2} - \left( \frac{7}{2} \right)^2 \right) : \left[ \left( \frac{17}{25} \right)^2 \cdot 6,8 \right] =$$

$$= \left( \frac{38+39}{30} \right) \cdot \left( \frac{21-11}{77} \right) + \left( \frac{45-11}{45} \right) \cdot \frac{16}{121} \cdot \left( \frac{65}{2} - \frac{49}{4} \right) : \left[ \frac{4}{9} \cdot \frac{34}{5} \right] =$$

$$= \frac{77}{30} \cdot \frac{10}{77} + \frac{34}{45} \cdot \frac{16}{121} \cdot \left( \frac{130-9}{4} \right) : \frac{136}{45} =$$

$$= \frac{1}{3} + \frac{34}{45} \cdot \frac{46}{121} \cdot \frac{121}{4} \cdot \frac{45}{136} =$$

$$= \frac{1}{3} + \frac{34}{1} \cdot \frac{4}{136} = \frac{1}{3} + 1 = \frac{1+3}{3} = \frac{4}{3} = 4:3 = 1\frac{1}{3}$$