

N° 229 a

$$\frac{(0,75 + 0,125) \cdot (0,25 + 0,1\bar{6})}{0,5 + 0,3} =$$

$$= \frac{0,875 \cdot (0,25 + 0,1\bar{6})}{0,5 + 0,3} =$$

$$0,875 = \frac{875}{1000} = \frac{175}{200} = \frac{35}{40} = \frac{7}{8}$$

$$0,25 = \frac{25}{100} = \frac{1}{4} \quad / \quad 0,1 = \frac{1}{10}$$

$$0,1\bar{6} = \frac{16-1}{90} = \frac{15}{90} = \frac{1}{6} \quad / \quad 0,3 = \frac{3}{10} = \frac{1}{3}$$

$$= \frac{\frac{7}{8} \cdot \left(\frac{1}{4} + \frac{1}{6}\right)}{\frac{1}{2} + \frac{1}{3}} = \frac{\frac{7}{8} \cdot \left(\frac{3+2}{12}\right)}{\frac{3+2}{6}} = \frac{\frac{7 \cdot 5}{8 \cdot 12}}{\frac{5}{6}} = \frac{35}{96} \cdot \frac{6}{5} = \frac{7 \cdot 5 \cdot 6}{96 \cdot 5} = \frac{7}{16}$$

N° 229 b

$$\frac{[(2 - 1,4 + 0,5) : 0,6] \cdot 1,2}{[(5 - 2,2 - 0,5) : 1,6] : 0,3} =$$

$$= \frac{[(2 - \frac{13}{9} + \frac{5}{9}) \cdot \frac{2}{3}] \cdot \frac{6}{5}}{[(5 - \frac{20}{9} - \frac{5}{9}) : \frac{5}{3}] : \frac{1}{3}} =$$

$$= \frac{[(\frac{18-13+5}{9}) \cdot \frac{3}{2}] \cdot \frac{6}{5}}{[(\frac{45-20-5}{9}) \cdot \frac{3}{5}] : \frac{1}{3}} =$$

$$= \frac{[\frac{5 \cdot 3}{3 \cdot 9} \cdot \frac{3}{2}] \cdot \frac{6}{5}}{[\frac{4 \cdot 3}{3 \cdot 9} \cdot \frac{3}{5}] : \frac{1}{3}} =$$

$$1,4 = \frac{14-1}{9} = \frac{13}{9} \quad / \quad 1,2 = \frac{12}{10} = \frac{6}{5}$$

$$0,5 = \frac{5}{10} = \frac{1}{2}$$

$$0,6 = \frac{6}{10} = \frac{3}{5} \quad / \quad 1,6 = \frac{16-1}{9} = \frac{15}{9} = \frac{5}{3}$$

$$0,3 = \frac{3}{10} = \frac{1}{3}$$

$$= \frac{\frac{5}{3} \cdot \frac{6}{5}}{\frac{4}{3} : \frac{1}{3}} = \frac{2}{\frac{4}{3} \cdot \frac{3}{1}} = \frac{2}{4} = \frac{1}{2} = 0,5$$

$$= \frac{2}{\frac{4}{9}} = 2 : \frac{4}{9} = 2 \cdot \frac{9}{4} = \frac{9}{2} = 4,5$$