ESERCIZI PAG. 20

N° 218 $\left[\left(0,75+\frac{1}{2}\right)^3 : \left(\frac{9}{4} - 1,8\overline{3}\right)\right] : \left[\left(1+0,\overline{6}\right)^2 : \frac{10}{27}\right] =$

$0,75 = \frac{75}{100} = \frac{3}{4}$ $\qquad 0,\overline{6} = \frac{6}{9} = \frac{2}{3}$

$1,8\overline{3} = \frac{183-18}{90} = \frac{165}{90} = \frac{55}{30} = \frac{11}{6}$

$= \left[\left(\frac{3}{4}+\frac{1}{2}\right)^3 : \left(\frac{9}{4}-\frac{11}{6}\right)\right] : \left[\left(1+\frac{2}{3}\right)^2 \cdot \frac{27}{10}\right] =$

$= \left[\left(\frac{5}{4}\right)^3 : \left(\frac{27-22}{12}\right)\right] : \left[\left(\frac{5}{3}\right)^2 \cdot \frac{27}{10}\right] =$

$= \left[\frac{125}{64} \cdot \frac{12}{5}\right] : \left[\frac{25}{9} \cdot \frac{27}{10}\right] =$

$= \frac{75}{16} : \frac{15}{2} = \frac{75}{16} \cdot \frac{2}{15} = \frac{5}{8}$ $\qquad 5:8 = 0,625$

N° 219 $\left[0,1\overline{6} + \left(0,1\overline{36} + 0,41\overline{6} - 0,2\overline{27}\right) : 0,3\overline{90}\right] : \left[0,\overline{36} + 2,25 \cdot \left(0,\overline{5} - 0,\overline{27}\right)\right] =$

$0,1\overline{6} = \frac{16-1}{90} = \frac{15}{90} = \frac{1}{6}$ $\qquad 0,3\overline{90} = \frac{390-3}{990} = \frac{387}{990} = \frac{43}{110}$

$0,1\overline{36} = \frac{136-1}{990} = \frac{135}{990} = \frac{15}{110} = \frac{3}{22}$ $\qquad 0,\overline{36} = \frac{36}{99} = \frac{4}{11}$

$0,41\overline{6} = \frac{416-41}{900} = \frac{375}{900} = \frac{75}{180} = \frac{15}{36} = \frac{5}{12}$ $\qquad 2,25 = \frac{225}{100} = \frac{9}{4}$

$0,2\overline{27} = \frac{227-2}{990} = \frac{225}{990} = \frac{25}{110} = \frac{5}{22}$ $\qquad 0,\overline{5} = \frac{5}{9}$ $\qquad 0,\overline{27} = \frac{27}{99} = \frac{3}{11}$

$= \left[\frac{1}{6} + \left(\frac{3}{22}+\frac{5}{12}-\frac{5}{22}\right) : \frac{43}{110}\right] : \left[\frac{4}{11} + \frac{9}{4} \cdot \left(\frac{5}{9}-\frac{3}{11}\right)\right] =$

$= \left[\frac{1}{6} + \left(\frac{18+55-30}{132}\right) \cdot \frac{110}{43}\right] : \left[\frac{4}{11} + \frac{9}{4} \cdot \left(\frac{55-27}{99}\right)\right] =$

$= \left[\frac{1}{6} + \frac{43}{132} \cdot \frac{110}{43}\right] : \left[\frac{4}{11} + \frac{9}{4} \cdot \frac{28}{99}\right] =$

$= \left[\frac{1}{6} + \frac{5}{6}\right] : \left[\frac{4}{11} + \frac{7}{11}\right] = \frac{6}{6} = 1$