

Fracciones II

1) Simplifica las fracciones:

$$\frac{6}{9}; \frac{36}{42}; \frac{-150}{105}; \frac{125}{-175}; \frac{242}{110}; \frac{-1225}{525}; \frac{999}{-81}; -\frac{77}{150}$$

2) Ordena de mayor a menor y representa en una recta:

a) $\frac{1}{2}; \frac{3}{4}; -\frac{6}{2}; \frac{5}{8}; 2; \frac{9}{-2}; \frac{15}{4}; 3 \cdot 32$

b) $\frac{3}{5}; \frac{-7}{3}; \frac{-5}{4}; 4; \frac{23}{20}; \frac{-18}{5}; \frac{12}{6}; -3$

Calcula:

3) $\frac{2}{3} + \frac{1}{5}$ 4) $\frac{3}{4} - \frac{2}{10}$ 5) $\frac{4}{5} + \frac{6}{7} - \frac{3}{10}$ 6) $\frac{7}{5} + \frac{3}{-2} + \frac{-1}{2}$ 7) $\frac{3}{2} \cdot \frac{4}{15}$

8) $\frac{3}{5} : \frac{4}{15}$ 9) $\frac{-3}{4} \cdot \left(\frac{2}{3} + \frac{1}{-5}\right)$ 10) $\frac{4}{7} : \left(3 + \frac{-5}{4}\right)$ 11) $\left(\frac{3}{2} + \frac{5}{-3}\right) \cdot \left(\frac{3}{6} - 1\right)$

12) $\frac{3}{8} \cdot \left[1 - 2 \cdot \left(\frac{1}{3} - \frac{2}{-6}\right)\right]$ 13) $\left(\frac{1}{2} - \frac{3}{5}\right) \cdot \left[\frac{4}{3} - \frac{1}{5} : \left(2 - \frac{5}{3}\right)\right]$ 14) $\frac{3}{2} - \frac{5}{4} \cdot \frac{2}{-15} \cdot 6 + \frac{1}{4}$

15) $\frac{\frac{3}{4} - \frac{4}{3}}{5 - \frac{3}{2}}$ 16) $\frac{\frac{7}{5} + \frac{3}{2}}{1 + \frac{5}{3} \cdot \frac{6}{15}}$ 17) $\frac{3 - \frac{2}{3} + \frac{-2}{5}}{2 \cdot \frac{3}{2} + 2}$ 18) $\frac{2 - \left(\frac{1}{2} + \frac{3}{-5}\right)}{2 + (3 - (2 + -5))} + 1$

19) $\frac{\frac{-1}{3} \cdot \left(\frac{2}{5} + 2\right)}{2 : \frac{3}{2} - 1} + \frac{1}{2 - 5} - \frac{2}{3}$ 20) $\frac{3 - \left(2 + \frac{1}{3}\right) \cdot 3}{-1 - \frac{2}{4} \cdot \frac{6}{3}} - (2 - (5 - (-4)))$ 21) $\frac{3 : \left(\frac{1}{-2} + 1\right) + \frac{1}{3}}{5 - \left(2 \cdot \frac{2}{5} - 1\right)}$

22) $\frac{\left(\frac{1}{3} + \frac{1}{5}\right) \cdot \left(\frac{1}{5} - \frac{1}{6}\right)}{\left(\frac{1}{3} - \frac{1}{5}\right) \cdot \left(\frac{1}{5} + \frac{1}{6}\right)}$ 23) $\left(\frac{1}{3} + \frac{1}{2}\right) \cdot \left(\frac{1}{2} - \frac{1}{4}\right) + 5 - 3 \cdot \left(4 : \frac{3}{5} + 1\right)$ 24) $\left(\frac{2}{3} + \frac{-7}{2} + \frac{5}{-6} + \frac{1}{4}\right) : \left(\frac{4}{3} + \frac{2}{3} - \frac{1}{6}\right)$

25) $\left(\frac{3}{2}\right)^2 + \left(-\frac{1}{2}\right)^4 - \left(-\frac{4}{8}\right)^1 =$ 26) $\left(\frac{2}{5}\right)^2 - \left(\frac{3}{4}\right)^2 + \left(\frac{1}{2}\right)^4 =$

27) $\left(-\frac{1}{4}\right)^3 - \left(-\frac{2}{8}\right)^4 - \left(-\frac{2}{5}\right)^3 =$ 28) $\left(\frac{1}{3}\right)^4 - \left(\frac{4}{9}\right)^2 - \left(\frac{3}{27}\right)^1 =$