

Efectúa las operaciones siguientes y simplifica (si se puede) el resultado final:

$$1. \frac{7}{15} + \frac{1}{3} \cdot \left( \frac{1}{5} - \frac{3}{10} \right) - 2$$

$$2. \frac{4}{7} + 2 - \frac{51}{14} + \frac{1}{2} - \frac{37}{28}$$

$$3. \left( \frac{1}{4} - \frac{7}{8} \right) : \left( -\frac{2}{3} \right) - 1 : \frac{16}{15}$$

$$4. \frac{23}{24} + 2 - \frac{17}{18} - \frac{25}{36} + \frac{1}{9}$$

$$5. \left( 2 - \frac{7}{8} \right) : \frac{2}{7} + \frac{40}{16} - \frac{7}{4} \cdot \left( \frac{1}{4} + 1 \right)$$

$$6. \frac{2}{3} : 5 + 4 : \frac{1}{3} + 13 - \frac{2}{15}$$

$$7. \left( \frac{3}{2} - 1 \right) \cdot \left( 3 + \frac{2}{7} \right) - \frac{9}{14}$$

$$8. \frac{1}{5} : \frac{1}{2} - 1 - \frac{2}{3} \cdot \frac{7}{5}$$

$$9. 1 + \left( 2 + \frac{1}{3} \right) : \frac{7}{2} - \frac{1}{3}$$

$$10. \left( \frac{1}{2} - \frac{3}{8} \right) \left( \frac{1}{4} + \frac{3}{8} \right) \left( 2 - \frac{5}{2} \right)$$

$$11. \frac{7}{8} - 3 - \frac{21}{32} + \frac{11}{80} - \frac{4}{5}$$

$$12. \frac{2}{3} - \frac{1}{4} : \left( \frac{1}{3} + \frac{1}{6} - 1 \right) - \frac{1}{4} - \frac{1}{6}$$

$$13. \frac{1}{6} - 4 + \frac{5}{3} - \frac{7}{18} + \frac{20}{9}$$

$$14. \frac{2}{3} - \left( \frac{7}{4} - \frac{3}{2} \right) \cdot \frac{4}{3} - \frac{11}{18}$$

$$15. \frac{1}{6} - 4 : \frac{3}{5} + \frac{1}{3} : \frac{5}{4} - 1$$

$$16. \frac{4}{3} - \frac{3}{8} + 1 - \frac{5}{6} + \frac{11}{18} - \frac{17}{36}$$

$$17. \left( \frac{1}{6} - 4 \right) : \frac{3}{5} + \frac{1}{3} : \left( \frac{5}{4} - 1 \right)$$

$$18. \frac{5}{48} - 3 + \frac{23}{36} - \frac{11}{18} + \frac{17}{24}$$

$$19. 4 - \left( \frac{7}{3} - 4 \right) - 6 \cdot \left( 1 - \frac{8}{5} \right)$$

$$20. \frac{\frac{3}{4} - \frac{2}{6}}{\frac{3}{7} - \frac{1}{2}} : \left( 1 - \frac{2}{5} \right) \cdot \left( \frac{2}{3} + \frac{7}{2} \right)$$

$$21. 3 + \frac{5}{3} \cdot \left( \frac{4}{5} - \frac{1}{7} \right) - \frac{1}{8}$$

$$22. \frac{1 - \frac{1}{3}}{1 - \frac{3}{5}} - \frac{3 + \frac{1}{6}}{\frac{1}{4} - 2}$$

$$23. \frac{4}{5} - \left( \frac{3}{4} - \frac{1}{2} \right) \cdot \frac{1}{5} - \frac{3}{4}$$

$$24. 3 \cdot \left( 1 - \frac{1}{2} \right) + 2 \cdot \frac{1}{5} - 4 \cdot \left( 1 + \frac{2}{3} \right)$$

$$25. \frac{\frac{10}{21} + 8 - \frac{7}{3} + \frac{3}{7}}{3 - \frac{7}{3} + \frac{3}{7}}$$

$$26. \frac{2 - \frac{1}{3}}{1 + \frac{1}{4}} - \frac{\frac{2}{5} - 3}{\frac{1}{2} + 2}$$

**SOLUCIONES:**

$$\frac{47}{30}, \frac{53}{14}, 0, \frac{103}{72}, \frac{17}{4}, 25, 1, \frac{23}{15}, \frac{4}{3}, -\frac{5}{128},$$

$$\frac{551}{160}, \frac{3}{4}, \frac{1}{3}, \frac{5}{18}, \frac{91}{72}, \frac{217}{30}, \frac{91}{18}, \frac{311}{144}, \frac{139}{15},$$

$$\frac{49}{417}, \frac{667}{168}, \frac{73}{21}, 0, \frac{143}{30}, \frac{46}{3}, \frac{178}{75}$$