

## Tema 4: Fracciones

### Ejercicio 81

$$81a) \quad \frac{6}{7} - \left(\frac{2}{3} + \frac{1}{4}\right) = \frac{6}{7} - \left(\frac{8}{12} + \frac{3}{12}\right) = \frac{6}{7} - \left(\frac{8+3}{12}\right) = \frac{6}{7} - \frac{11}{12} = \frac{72}{84} - \frac{77}{84} = \frac{72-77}{84} = -\frac{5}{84}$$

$$81b) \quad \frac{1}{2} + \left(\frac{11}{3} - \frac{7}{4}\right) = \frac{1}{2} + \left(\frac{44}{12} - \frac{21}{12}\right) = \frac{1}{2} + \frac{23}{12} = \frac{6}{12} + \frac{23}{12} = \frac{29}{12}$$

$$81c) \quad \frac{11}{8} - \left(\frac{3}{6} + \frac{1}{4}\right) = \frac{11}{8} - \left(\frac{1}{2} + \frac{1}{4}\right) = \frac{11}{8} - \left(\frac{2}{4} + \frac{1}{4}\right) = \frac{11}{8} - \frac{3}{4} = \frac{11}{8} - \frac{6}{8} = \frac{5}{8}$$

$$81d) \quad \left(\frac{3}{7} - \frac{3}{5}\right) - \frac{1}{3} = \left(\frac{15}{35} - \frac{21}{35}\right) - \frac{1}{3} = -\frac{6}{35} - \frac{1}{3} = -\frac{18}{105} - \frac{35}{105} = \frac{-18-35}{105} = -\frac{53}{105}$$

$$81e) \quad 2 + \frac{1}{3} - \left(1 + \frac{1}{16}\right) = 2 + \frac{1}{3} - \left(\frac{16}{16} + \frac{1}{16}\right) = \frac{2}{1} + \frac{1}{3} - \frac{17}{16} = \frac{96}{48} + \frac{16}{48} - \frac{51}{48} = \frac{96+16-51}{48} = \frac{61}{48}$$

$$81f) \quad 1 + \frac{1}{5} - \left(\frac{1}{4} - \frac{2}{3}\right) = 1 + \frac{1}{5} - \left(\frac{3}{12} - \frac{8}{12}\right) = \frac{1}{1} + \frac{1}{5} - \frac{-5}{12} = \frac{60}{60} + \frac{12}{60} - \frac{-25}{60} = \frac{60+12-(-25)}{60} = \frac{60+12+(+25)}{60} = \frac{97}{60}$$

$$81g) \quad 7 - \left(\frac{7}{6} - \frac{5}{7}\right) = \frac{7}{1} - \left(\frac{49}{42} - \frac{30}{42}\right) = \frac{7}{1} - \frac{19}{42} = \frac{294}{42} - \frac{19}{42} = \frac{275}{42}$$

$$81h) \quad \left(\frac{8}{6} - \frac{11}{8}\right) - \left(\frac{3}{6} + \frac{1}{4}\right) = \left(\frac{4}{3} - \frac{11}{8}\right) - \left(\frac{1}{2} + \frac{1}{4}\right) = \left(\frac{32}{24} - \frac{33}{24}\right) - \left(\frac{2}{4} + \frac{1}{4}\right) = \frac{-1}{24} - \frac{3}{4} = \frac{-1}{24} - \frac{18}{24} = \frac{-1-18}{24} = \frac{-19}{24}$$