

FRACCIONS SETEMBRE

$$1.- \quad \frac{8}{2} + \frac{9}{2} + \frac{3}{2} = \frac{8+9+3}{2} = \frac{20}{2} = 10$$

$$2.- \quad \frac{8}{5} + \frac{9}{5} - \frac{3}{5} + \frac{7}{5} = \frac{8+9-3+7}{5} = \frac{21}{5}$$

$$3.- \quad \frac{8}{2} + \frac{9}{4} = \frac{16}{4} + \frac{9}{4} = \frac{16+9}{4} = \frac{25}{4}$$

$$4.- \quad \frac{8}{2} + \frac{9}{4} + \frac{1}{2} = \frac{16}{4} + \frac{9}{4} + \frac{2}{4} = \frac{27}{4}$$

$$5.- \quad \frac{8}{5} + \frac{9}{7} = \frac{56}{35} + \frac{45}{35} = \frac{56+45}{35} = \frac{101}{35}$$

$$6.- \quad \frac{8}{5} + \frac{9}{35} = \frac{56}{35} + \frac{9}{35} = \frac{65}{35} = \frac{\frac{65}{5}}{\frac{35}{5}} = \frac{13}{7}$$

$$7.- \quad \frac{8}{8} + \frac{9}{6} + \frac{1}{18} = \frac{8 \cdot 9}{72} + \frac{9 \cdot 12}{72} + \frac{1 \cdot 4}{72} = \frac{72}{72} + \frac{108}{72} + \frac{4}{72} = \frac{72+108+4}{72} = \frac{184}{72} = \frac{184/8}{72/8} = \frac{23}{9}$$

$$8 = 2^3 \\ 6 = 2 \cdot 3 \\ 18 = 2 \cdot 3^2$$

$$\text{MCM} = 2^3 \cdot 3^2 = 72$$

$$184 = 2^3 \cdot 23 \\ 72 = 2^3 \cdot 3^2$$

$$\text{MCD} = 2^3 = 8$$

8.- Simplifica

$$\frac{560}{1260} = \frac{56}{126} = \frac{56/14}{126/14} = \frac{4}{19}$$

$$56 = 2^3 \cdot 7 \\ 126 = 2 \cdot 3^2 \cdot 7 \\ \text{MCD} = 2 \cdot 7 = 14$$

$$9.- \quad \frac{9}{4} \times \frac{2}{5} = \frac{9 \cdot 2}{4 \cdot 5} = \frac{18}{20} = \frac{9}{10}$$

$$10.- \quad \frac{4}{5} \times 4 = \frac{4 \cdot 4}{5} = \frac{16}{5}$$

$$11.- \quad \frac{6}{4} \times \frac{2}{3} \times 5 = \frac{6 \cdot 2 \cdot 5}{4 \cdot 3} = \frac{60}{12} = 5$$

$$12.- \quad \frac{3}{5} \times \frac{-4}{3} \times \frac{2}{-3} = \frac{3 \cdot (-4) \cdot 2}{5 \cdot 3 \cdot (-3)} = \frac{-24}{-45} = \frac{-24/3}{-45/3} = \frac{8}{15}$$

$$13.- \quad \frac{8}{5} \div \frac{2}{3} = \frac{8 \cdot 3}{5 \cdot 2} = \frac{24}{10} = \frac{12}{5}$$

$$14.- \quad \frac{5}{3} \div \frac{-8}{3} = \frac{5 \cdot 3}{3 \cdot (-8)} = \frac{5}{-8} = -\frac{5}{8}$$

15.- $\frac{5/4}{6/5} = \frac{5}{4} \div \frac{6}{5} = \frac{25}{24}$

16.- $\left(\frac{2/5}{3/4}\right) \times \frac{7}{3} = \left(\frac{2}{5} \div \frac{3}{4}\right) \times \frac{7}{3} = \frac{8}{15} \times \frac{7}{3} = \frac{56}{45}$

17.- $\left(\frac{5}{4} \times \frac{2}{3}\right) + \frac{8}{9} = \frac{10}{12} + \frac{8}{9} = \frac{5}{6} + \frac{8}{9} = \frac{15+16}{18} = \frac{31}{18}$