FRACTIONS : CALCULS   3.1

1) Simplifier :

$$A = \frac{126}{72}$$

$$B = \frac{315}{270}$$

$$C = \frac{165}{195}$$

$$D = \frac{352}{480}$$

2) Convertir en fraction

$$A = \frac{6}{0,5}$$

$$B = \frac{4,86}{0,9}$$

$$C = \frac{7,8}{0,12}$$

$$D = \frac{1}{0,8}$$

3) Comparer :

A) $\dfrac{13}{16}$ et $\dfrac{7}{8}$

B) $\dfrac{3}{4}$; $\dfrac{5}{8}$ et $\dfrac{1}{2}$

C) $\dfrac{7}{2}$; $\dfrac{7}{3}$; $\dfrac{7}{4}$ et $\dfrac{7}{5}$

D) $\dfrac{6}{25}$; $\dfrac{12}{75}$; $\dfrac{1}{3}$ et $\dfrac{9}{15}$

4) Calculer :

$$A = \frac{3}{7} + \frac{5}{21}$$

$$B = 2 + \frac{3}{7}$$

$$C = \frac{1}{2} + \frac{1}{4} + \frac{1}{6} + \frac{1}{12}$$

$$D = 1 + \frac{1}{11} - \frac{1}{22}$$

5) Calculer :

$$A = \frac{14}{9} - \left(\frac{13}{18} + \frac{4}{9} \right)$$

$$B = \frac{2}{3} - \left(\frac{1}{3} + \frac{1}{9} \right)$$

$$C = \frac{8}{30} - \left(\frac{2}{5} - \frac{2}{15} \right)$$

$$D = \left(\frac{1}{5} + \frac{4}{15} \right) - \frac{11}{30}$$

6) Calculer :

$$A = \frac{3}{4} + \frac{2}{6}$$

$$B = \frac{2}{15} + \frac{3}{20}$$

$$C = \frac{9}{8} + \frac{5}{12}$$

$$D = \frac{15}{66} - \frac{10}{44}$$

7) Simplifier

$$A = \frac{125}{175}$$

$$B = \frac{540}{765}$$

$$C = \frac{88}{440}$$

$$D = \frac{220}{154}$$

8) Calculer :

$$A = \frac{5 \times 16}{12 \times 20}$$

$$B = \frac{9 \times 21 \times 10}{27 \times 5 \times 14}$$

$$C = 1 + \frac{15}{7} \times \frac{14}{25}$$

$$D = -\frac{4}{9} \times \frac{27}{12} + \frac{16}{8} \times \frac{-5}{4}$$

9) Calculer :

$$A = \frac{\dfrac{5}{3}}{2}$$

$$B = \frac{\dfrac{-7}{4}}{\dfrac{3}{-5}}$$

$$C = \frac{1}{-\dfrac{1}{5}}$$

$$D = \frac{3 - \dfrac{5}{2}}{1 + \dfrac{1}{5}}$$

10) Calculer :

$$A = 10 \times \frac{2}{5}$$

$$B = 6 \times \frac{3}{7}$$

$$C = \frac{1}{8} \times 48$$

$$D = 15 \times \frac{3}{5}$$

11) Calculer :

$$A = \frac{5}{3} + \frac{15}{2}$$

$$B = \frac{3}{7} + \frac{4}{3}$$

$$C = -\frac{12}{5} + \frac{28}{2}$$

$$D = \frac{-5}{3} - \frac{3}{4}$$

12) Calculer :

$$A = \frac{-5}{6} + \frac{1}{8}$$

$$B = \frac{-11}{8} \times \frac{-6}{-5}$$

$$C = \frac{-7}{6} : \frac{5}{-9}$$

$$D = \frac{5}{3} - \frac{5}{7} \times \left(2 + \frac{1}{2} \right)$$

13) Calculer :

$$A = -\frac{3}{2} - \frac{5}{3} - \frac{2}{5}$$

$$B = \frac{-1}{2} \times \frac{-3}{4} \times \frac{5}{6} \times \frac{7}{-10}$$

$$C = 2 - \frac{3 + \dfrac{1}{3}}{2 - \dfrac{1}{2}}$$

$$D = \frac{-2}{3} \times \left(\frac{4}{5} + \frac{-3}{4} \right)$$