FRACTIONS : CALCULS 3.1

I) Simplifier (ou convertir en fraction) :

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

B = $\frac{3000}{700}$

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

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

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

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

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

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

I = $\frac{882}{1386}$

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

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

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

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

N = $\frac{12,4}{0,25}$

II) Comparer :

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

B) $\frac{7}{5}$ et $\frac{27}{20}$

C) $\frac{2}{21}$ et $\frac{1}{7}$

D) $\frac{3}{4}$; $\frac{5}{8}$ et $\frac{1}{2}$

E) $\frac{5}{3}$; $\frac{19}{12}$ et $\frac{7}{4}$

F) $\frac{7}{2}$; $\frac{7}{3}$; $\frac{7}{4}$ et $\frac{7}{5}$

G) $\frac{6}{25}$; $\frac{12}{75}$; $\frac{1}{3}$ et $\frac{9}{15}$

H) $\frac{5}{6}$; $\frac{11}{12}$; $\frac{20}{24}$ et $\frac{3}{4}$

I) $\frac{7}{5}$; $\frac{48}{35}$; $\frac{8}{10}$ et $\frac{49}{35}$

III) Calculer :

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

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

C = $\frac{5}{3}+\frac{2}{3}+\frac{5}{6}+\frac{7}{6}$

D = $\frac{5}{6}+\frac{5}{2}+\frac{1}{6}-2$

E = $\frac{17}{9-3}-\frac{4}{6}$

F = $1-\frac{3}{5}$

G = $\frac{18}{7}-2$

H = $\frac{5}{6}+\frac{7}{18}$

I = $\frac{3}{4}+\frac{11}{28}$

J = $5+\frac{6}{7}$

K = $\frac{11}{3}-1$

L = $\frac{3}{5}-\frac{7}{30}$

M = $\frac{3}{4}-\frac{11}{36}$

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

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

P = $\frac{27}{15}+\frac{13}{27-12}$

Q = $\frac{13+7}{7}+\frac{9}{16-9}$

R = $\frac{8+3}{8\times3}-\frac{6+4}{6\times4}$

S = $\frac{11}{5}-\frac{2}{3}+\frac{1}{15}$

T = $\frac{6}{5}-\left(\frac{17}{20}-\frac{1}{4}\right)$

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

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

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

X = $\frac{1}{3}+\frac{5}{8}+\frac{17}{5}+\frac{4}{6}+\frac{9}{24}-\frac{2}{5}$

IV) Calculer :

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

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

C = $\frac{1}{8}\times64$

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

E = $\frac{11}{3}\times12$

F = $\frac{9}{4}\times28$

G = $16\times\frac{3}{20}$

H = $\frac{8}{3}\times\left(\frac{3}{2}-\frac{1}{2}\right)$

I = $\frac{1}{2}+\frac{1}{6}\times3$

J = $\left(\frac{9}{5}+\frac{3}{15}\right)\times\frac{3}{2}$

K = $9\times\frac{35}{18}\times4$

L = $\frac{8}{3}\times2-\frac{1}{6}$

M = $\frac{56}{51}\times51$

N = $\frac{1}{5}+\frac{1}{2}-\frac{1}{10}\times3$

O = $7\times\frac{3}{2}+2$

P = $5\times\left(\frac{1}{6}+\frac{1}{3}\right)$

Q = $\frac{1}{2}\times6+\frac{1}{3}$

R = $\frac{2}{3}\times5+\frac{8}{6}+4\times\frac{1}{12}$

S = $\frac{5}{2}-\left(\frac{2}{5}+\frac{1}{10}\right)+\frac{5}{2}\times5$

T = $\frac{8-5}{11-3}\times\left(\frac{19}{9}-\frac{1}{3}\times\frac{1}{5-2}\right)$

Ci-dessous, petite astuce !

U = $\frac{1}{2}\times\frac{2}{3}+\frac{1}{2}\times\frac{1}{3}$

V = $3\times\frac{2}{5}+\frac{1}{3}\times\frac{2}{5}$

W = $4\times\frac{5}{3}-\frac{1}{6}\times4$