

## Corrigé FS-13

<http://hep-vd.educanet2.ch/p41349/idm>

**Exercice 1** - Compare les nombres suivants (  $<$  ;  $>$  ou  $=$  ) :

$$\begin{array}{|l|l|l|} \hline \frac{2}{7} < \frac{3}{7} & \frac{4}{7} > \frac{4}{9} & \frac{9}{30} = \frac{3}{10} > \frac{4}{15} = \frac{8}{30} \\ \hline \frac{4}{3} > \frac{20}{30} = \frac{2}{3} & \frac{12}{16} = \frac{3}{4} & \frac{54}{99} = \frac{6}{11} < \frac{5}{9} = \frac{55}{99} \\ \hline \end{array}$$

**Exercice 2** - Calcule :

a)  $\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$

b)  $\frac{23}{121} - \frac{12}{121} = \frac{11}{121} = \frac{1}{11}$

c)  $\frac{4}{9} + \frac{2}{9} = \frac{6}{9} = \frac{2}{3}$

d)  $\frac{5}{4} + \frac{5}{8} = \frac{10}{8} + \frac{5}{8} = \frac{15}{8}$

e)  $\frac{5}{3} + \frac{1}{4} = \frac{20}{12} + \frac{3}{12} = \frac{23}{12}$

f)  $\frac{1}{6} + \frac{5}{9} = \frac{3}{18} + \frac{10}{18} = \frac{13}{18}$

g)  $\frac{3}{4} + \frac{1}{3} = \frac{9}{12} + \frac{4}{12} = \frac{13}{12}$

h)  $\frac{6}{8} - \frac{3}{4} = \frac{6}{8} - \frac{6}{8} = \frac{0}{8} = 0$  ou  $\frac{6}{8} - \frac{3}{4} = \frac{3}{4} - \frac{3}{4} = 0$

i)  $\frac{22}{11} + \frac{27}{9} = 2 + 3 = 5$

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**Exercice 3** - Aide-toi de l'exemple et calcule :

$$\frac{4}{15} + \frac{3}{10} = \frac{8}{30} + \frac{9}{30} = \mathbf{\frac{17}{30}} \quad \left( \text{car } \frac{4}{15} = \frac{8}{30} \text{ et } \frac{3}{10} = \frac{9}{30} \right)$$

$$j) \frac{7}{10} + \frac{8}{15} = \frac{21}{30} + \frac{16}{30} = \frac{37}{30}$$

$$k) \frac{7}{25} + \frac{1}{10} = \frac{14}{50} + \frac{5}{50} = \frac{19}{50}$$

$$l) \frac{3}{8} + \frac{9}{4} = \frac{3}{8} + \frac{18}{8} = \frac{21}{8}$$

$$m) \frac{5}{12} + \frac{7}{6} = \frac{5}{12} + \frac{14}{12} = \frac{19}{12}$$

$$n) \frac{2}{9} + \frac{1}{6} = \frac{4}{18} + \frac{3}{18} = \frac{7}{18}$$

$$o) \frac{11}{20} + \frac{43}{50} = \frac{55}{100} + \frac{86}{100} = \frac{141}{100}$$

$$p) \frac{9}{4} - \frac{3}{8} = \frac{18}{8} - \frac{3}{8} = \frac{15}{8}$$

$$q) \frac{5}{6} - \frac{7}{12} = \frac{10}{12} - \frac{7}{12} = \frac{3}{12} = \frac{1}{4}$$

$$r) \frac{1}{3} + \frac{-5}{13} = \frac{13}{39} + \frac{-15}{39} = \frac{-2}{39} \quad \text{ou} \quad -\frac{2}{39}$$

$$s) \frac{35}{55} + \frac{35}{77} = \frac{7}{11} + \frac{5}{11} = \frac{12}{11}$$