BAFDILI
VOUS AIDER À RÉSOUDRE TOUS LES PROBLÈMES LIÉS AUX MATHÉMATIQUES

CALCUL ALGEBRIQUE REVISION

SERIE 1 CORRECTION — 3APIC

EXERCICE 1 :

Calculer :

$A=4\times3-3-6$; $B=(-3)\times(-5)+5-17$; $C=5-5\times2+3$

$D=22+(-2)\times5-(-3)\times(-4)$; $E=13-13\times2-2$; $F=7-7\times4+25$

$G=3-(-15)\div(-3)+3$; $H=-12\div(-4)+4\div(-2)$; $I=1-21\div(-7)+2\times(-1)$

CORRECTION :

$A=4\times3-3-6=12-3-6=9-6=3$; $B=(-3)\times(-5)+5-17=15+5-17=20-17=3$

$C=5-5\times2+3=5-10+3=-5+3=-2$; $D=22+(-2)\times5-(-3)\times(-4)=22-10-12=12-12=0$

$E=13-13\times2-2=13-26-2=-13-2=-15$; $F=7-7\times4+25=7-28+25=-21+25=4$

$G=3-(-15)\div(-3)+3=3-5+3=6-5=1$; $H=-12\div(-4)+4\div(-2)=3+(-2)=1$

$I=1-21\div(-7)+2\times(-1)=1+3-2=4-2=2$

EXERCICE 2:

Calculer :

$A=-\frac{7}{3}+\frac{4}{3}-1$; $B=\frac{2}{7}+\frac{5}{7}-1$; $C=\frac{1}{7}+2-\frac{8}{7}$; $D=\frac{1}{2}\times\frac{4}{3}+\frac{4}{3}$; $E=\frac{7}{3}\div\frac{7}{4}-\frac{1}{3}$

CORRECTION :

$A=-\frac{7}{3}+\frac{4}{3}-1=\frac{-7+4}{3}-1=\frac{-3}{3}-1=-1-1=-2$; $B=\frac{2}{7}+\frac{5}{7}-1=\frac{2+5}{7}-1=\frac{7}{7}-1=1-1=0$

$C=\frac{1}{7}+2-\frac{8}{7}=\frac{1-8}{7}+2=\frac{-7}{7}+2=-1+2=1$; $D=\frac{1}{2}\times\frac{4}{3}+\frac{4}{3}=\frac{1\times4}{2\times3}+\frac{4}{3}=\frac{4}{6}+\frac{4}{3}=\frac{2}{3}+\frac{4}{3}=\frac{6}{3}=2$

$E=\frac{7}{3}\div\frac{7}{4}-\frac{1}{3}=\frac{7}{3}\times\frac{4}{7}-\frac{1}{3}=\frac{7\times4}{3\times7}-\frac{1}{3}=\frac{4}{3}-\frac{1}{3}=1$

EXERCICE :

Calculer

$A=\frac{8}{5}-\frac{6}{5}\times\frac{1}{2}$; $B=\frac{4}{3}\times\left(-\frac{2}{7}\right)\times\left(\frac{-21}{8}\right)$; $C=2-\frac{2}{3}-3\times\frac{5}{15}+\frac{6}{9}$; $D=1-\frac{6}{5}\times\frac{10}{2}$

$E=\frac{4}{3}\times2-2\times\left(\frac{-1}{6}\right)$; $F=-\frac{1}{3}-\frac{5}{15}-\frac{3}{9}$

CORRECTION :

$A=\frac{8}{5}-\frac{6}{5}\times\frac{1}{2}=\frac{8}{5}-\frac{3}{5}=\frac{8-3}{5}=\frac{5}{5}=1$; $B=\frac{4}{3}\times\left(-\frac{2}{7}\right)\times\left(\frac{-21}{8}\right)=\frac{4}{3}\times\frac{2}{7}\times\frac{21}{8}=1$

$C=2-\frac{2}{3}-3\times\frac{5}{15}+\frac{6}{9}=2-\frac{2}{3}-\frac{15}{15}+\frac{2}{3}=2-1=1$; $D=1-\frac{6}{5}\times\frac{10}{2}=1-\frac{10}{5}\times\frac{6}{2}=1-2\times3=1-6=-5$

$E=\frac{4}{3}\times2-2\times\left(\frac{-1}{6}\right)=\frac{8}{3}+2\times\frac{1}{6}=\frac{8}{3}+\frac{1}{3}=\frac{9}{3}=3$; $F=-\frac{1}{3}-\frac{5}{15}-\frac{3}{9}=-\frac{1}{3}-\frac{1}{3}-\frac{1}{3}=-\frac{1+1+1}{3}=-1$

EXERCICE 4:

Calculer :

$A=11,5-\frac{13}{2}$; $B=\frac{19}{4}+0,25$; $C=\frac{15}{2}-2,5$; $D=7,5-\frac{5}{2}$

$E=\frac{8}{5}-\frac{6}{5}\times\frac{1}{2}$; $F=\frac{4}{3}\times\left(-\frac{2}{7}\right)\times\left(\frac{-21}{8}\right)$; $G=2-\frac{2}{3}-3\times\frac{5}{15}+\frac{6}{9}$

CORRECTION :

$$A = 11,5 - \frac{13}{2} = \frac{115}{10} - \frac{13}{2} = \frac{115}{10} - \frac{13}{2} = \frac{23}{2} - \frac{13}{2} = \frac{10}{2} = 5 \quad ; \quad B = \frac{19}{4} + 0,25 = \frac{19}{4} + \frac{25}{100} = \frac{19}{4} + \frac{1}{4} = \frac{20}{4} = 5$$

$$C = \frac{15}{2} - 2,5 = \frac{15 - 2 \times 2,5}{2} = \frac{15-5}{2} = \frac{10}{2} = 5 \quad ; \quad D = 7,5 - \frac{5}{2} = \frac{7,5 \times 2 - 5}{2} = \frac{15-5}{2} = \frac{10}{2} = 5$$

$$E = \frac{8}{5} - \frac{6}{5} \times \frac{1}{2} = \frac{8}{5} - \frac{3}{5} = \frac{8-3}{5} = \frac{5}{5} = 1 \quad ; \quad F = \frac{4}{3} \times \left(-\frac{2}{7} \right) \times \left(\frac{-21}{8} \right) = \frac{4}{3} \times \frac{2}{7} \times \frac{21}{8} = 1$$

$$G = 2 - \frac{2}{3} - 3 \times \frac{5}{15} + \frac{6}{9} = 2 - \frac{2}{3} - \frac{15}{15} + \frac{2}{3} = 2 - 1 = 1$$

EXERCICE 5:

Calculer :

$$A = \frac{8}{9} \div \frac{16}{27} - \frac{3}{2} \quad ; \quad B = \frac{1}{60} \div \frac{1}{36} - \frac{3}{5} \quad ; \quad C = 26 \div \frac{13}{11} - 20 \quad ; \quad D = \frac{65}{13} \div 5 + 2$$

CORRECTION :

$$A = \frac{8}{9} \div \frac{16}{27} - \frac{3}{2} = \frac{8}{9} \times \frac{27}{16} - \frac{3}{2} = 3 \times \frac{1}{2} - \frac{3}{2} = \frac{3}{2} - \frac{3}{2} = 0$$

$$B = \frac{1}{60} \div \frac{1}{36} - \frac{3}{5} = \frac{1}{60} \times \frac{36}{1} - \frac{3}{5} = \frac{36}{60} - \frac{3}{5} = \frac{3}{5} - \frac{3}{5} = 0$$

$$C = 26 \div \frac{13}{11} - 20 = 26 \times \frac{11}{13} - 20 = \frac{26 \times 11}{13} - 20 = 2 \times 11 - 20 = 22 - 20 = 2$$

$$D = \frac{65}{13} \div 5 + 2 = \frac{65}{13} \times \frac{1}{5} + 2 = 5 \times \frac{1}{5} + 2 = 1 + 2 = 3$$