Fiche 3B : Calculs numériques

Réaliser les calculs suivants :

$$A = \frac{\frac{1}{2}+7}{\frac{3}{4}\times\frac{2}{5}} = \dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots$$

$$B = \frac{\frac{5}{3}\times\frac{4}{7}}{\frac{1}{4}-\frac{3}{5}} = \dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots$$

$$C = 2+\frac{\frac{3}{4}+2\times\frac{3}{8}}{\frac{-7}{2}\times\frac{5}{3}} = \dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots$$

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Réaliser les calculs suivants :

$$A=\frac{\frac{1}{2}+7}{\frac{3}{4}\times\frac{2}{5}}=\frac{\frac{1}{2}+\frac{7}{1}}{\frac{3\times2}{4\times5}}=\frac{\frac{1}{2}+\frac{7\times2}{1\times2}}{\frac{3\times\boxed{2}}{2\times\boxed{2}\times5}}=\frac{\frac{1}{2}+\frac{14}{2}}{\frac{3}{10}}=\frac{\frac{15}{2}}{\frac{3}{10}}=\frac{15}{2}\times\frac{10}{3}=\frac{15\times10}{2\times3}=\frac{\boxed{3}\times5\times\boxed{2}\times5}{\boxed{2}\times\boxed{3}}=25$$

$$B=\frac{\frac{5}{3}\times\frac{4}{7}}{\frac{1}{4}-\frac{3}{5}}=\frac{\frac{5\times4}{3\times7}}{\frac{1\times5}{4\times5}-\frac{3\times4}{5\times4}}=\frac{\frac{20}{21}}{\frac{5}{20}-\frac{12}{20}}=\frac{\frac{20}{21}}{-\frac{7}{20}}=\frac{20}{21}\times\left(-\frac{20}{7}\right)=-\frac{20\times20}{21\times7}=-\frac{400}{147}$$

$$C=2+\frac{\frac{3}{4}+2\times\frac{3}{8}}{\frac{-7}{2}\times\frac{5}{3}}=2+\frac{\frac{3}{4}+\frac{2\times3}{8}}{\frac{-7\times5}{2\times3}}=2+\frac{\frac{3}{4}+\frac{\boxed{2}\times3}{\boxed{2}\times4}}{\frac{-35}{6}}=2+\frac{\frac{3}{4}+\frac{3}{4}}{\frac{-35}{6}}=2+\frac{\frac{6}{4}}{\frac{-35}{6}}=2+\frac{\frac{\boxed{2}\times3}{\boxed{2}\times2}}{\frac{-35}{6}}=2+\frac{\frac{3}{2}}{\frac{-35}{6}}$$

$$=2+\frac{3}{2}\times\left(-\frac{6}{35}\right)=2-\frac{3\times6}{2\times35}=2-\frac{3\times\boxed{2}\times3}{\boxed{2}\times35}=2-\frac{9}{35}=\frac{2\times35}{1\times35}-\frac{9}{35}=\frac{70}{35}-\frac{9}{35}=\frac{61}{35}$$