

Nom :
Prénom :

Classe :
Date :

Contrôle 4N7 – Inverse

Exercice 1 – Compétence Représenter

Donner l'inverse des nombres suivants :

Nombre	4	-5	$\frac{1}{3}$	$\frac{2}{5}$	$-\frac{11}{4}$	π
Inverse	$\frac{1}{4}$	$-\frac{1}{5}$	3	$\frac{5}{2}$	$-\frac{4}{11}$	$\frac{1}{\pi}$

Exercice 2 – Compétence Calculer

Simplifier les expressions suivantes :

$$A = \frac{1}{\frac{1}{2}} = 1 \times \frac{2}{1} = \boxed{2}$$

$$B = \frac{\frac{2}{3}}{\frac{4}{5}} = \frac{2}{3} \times \frac{5}{4} = \frac{\cancel{2} \times 5}{3 \times \cancel{4} \times 2} = \boxed{\frac{5}{6}}$$

$$C = \frac{9}{\frac{6}{7}} = 9 \times \frac{7}{6} = \frac{\cancel{3} \times 3 \times 7}{\cancel{3} \times 2} = \boxed{\frac{21}{2}}$$

$$D = \frac{\frac{1}{4}}{\frac{9}{8}} = \frac{1}{4} \times \frac{8}{9} = \frac{1 \times \cancel{4} \times 2}{\cancel{4} \times 9} = \boxed{\frac{2}{9}}$$

$$E = \frac{1}{3} + \frac{1}{2} \times \frac{\frac{1}{4}}{\frac{3}{9}} = \frac{1}{3} + \frac{1}{2} \times \frac{1}{4} \times \frac{9}{3} = \frac{1}{3} + \frac{3}{8} = \frac{1 \times 8 + 3 \times 3}{3 \times 8} = \frac{8+9}{24} = \boxed{\frac{17}{24}}$$

$$F = \frac{\frac{\frac{7}{5}}{\frac{6}{7}}}{\frac{\frac{10}{2}}{\frac{5}{5}}} = \frac{7}{5} \times \frac{1}{6} \times \frac{\frac{2}{5}}{\frac{7}{10}} = \frac{7}{30} \times \frac{2}{5} \times \frac{10}{7} = \frac{\cancel{7} \times 2 \times \cancel{10}}{\cancel{10} \times 3 \times 5 \times \cancel{7}} = \boxed{\frac{2}{15}}$$