

**EXERCICE 1 :**

Donner le résultat sous la forme « 10<sup>n</sup> » :

$$A = 10^4 \times 10^{-8} \times 10^5$$

$$B = (10^{-2})^3 \times (10^3)^4$$

$$C = \frac{10^4 \times 10^{-1} \times 10^{-5}}{10^{-7} \times 10^6 \times 10^{-3}}$$

$$D = \frac{(10^{-5})^6}{(10^4)^{-8}}$$

$$E = \frac{10^4}{\frac{10^{-5}}{10^{-3}}}$$

$$F = \left( \left( (10^{-2})^3 \right)^{-4} \right)^{-1}$$

**EXERCICE 2**

Donner le résultat sous la forme « 10<sup>n</sup> » :

$$A = 10^{-2} \times 10^9 \times 10 \times 10^2 \times 10^{-5}$$

$$B = \frac{10^6}{10^{-2}} \times \frac{10^{-2}}{10^{-5}} \times \frac{10^{-5}}{10^4}$$

$$C = 10^4 \times \frac{10^6}{10^9} \times \frac{10^{-4}}{10^0} \times \frac{1}{10^5}$$

$$D = \frac{(10^{-2})^3}{(10^{-1})^4} \times \frac{(10^{-8})^{-2}}{(10^{-5})^3}$$

$$E = (10^{-9} \times 10^{-3} \times 10^{14} \times 10 \times 0,1)^{-2}$$

$$F = \left[ \frac{10^{-3}}{10^{-5}} \times \left( \frac{10^1}{10^{-1}} \right)^{-3} \right]^{-5}$$

**EXERCICE 3 :** Compléter les pointillés :

$10^4 \times 10^{\dots} = 10^{-1}$	$10^{-5} \times 10^{\dots} \times 10^{-2} = 10^3$
$\frac{1}{10^{\dots}} = 10^6$	$\frac{10^{-3}}{10^{\dots}} = 10^{-5}$
$\frac{10^{-4} \times 10^9}{10^{\dots} \times 10^{-2}} = 10^8$	$\frac{10^{-1} \times 10^5 \times 10^{\dots}}{10^{-3} \times 10^7 \times 10^2} = 10^{-3}$
$(10^3)^{\dots} = 10^{-6}$	$(10^{\dots})^{-4} = 10^{12}$
$\left[ (10^{-1})^{-3} \right]^{\dots} = 10^{-9}$	$\frac{1}{(10^{-5})^{\dots}} = 10^{15}$
$10^{11} \times 10^{\dots} = 10^{-5} \times 10^9$	$\frac{10^{-3}}{10^{\dots}} = \frac{10^{-5}}{10^{-9}}$

**EXERCICE 4**

Calculer :

<b>a.</b> $54\,321,098\,76 \times 10^2 = 5\,432\,109,876$
<b>b.</b> $54\,321,098\,76 \times 10^{-2} =$
<b>c.</b> $54\,321,098\,76 \times 10^4 =$
<b>d.</b> $54\,321,098\,76 \times 10^{-3} =$
<b>e.</b> $54\,321,098\,76 \times 10^5 =$
<b>f.</b> $54\,321,098\,76 \times 10^{-4} =$
<b>g.</b> $54\,321,098\,76 \times 10^{-1} =$
<b>h.</b> $54\,321,098\,76 \times 10^7 =$
<b>i.</b> $54\,321,098\,76 \times 10^{-6} =$
<b>j.</b> $54\,321,098\,76 \times 10^0 =$

**EXERCICE 5**

Calculer :

<b>a.</b> $6,08 \times 10^5 = 608\,000$
<b>b.</b> $-87,52 \times 10^3 =$
<b>c.</b> $8,0002 \times 10^3 =$
<b>d.</b> $0,00875 \times 10^7 =$
<b>e.</b> $67,04 \times 10^{-1} =$
<b>f.</b> $-965,297 \times 10^{-2} =$
<b>g.</b> $-6,153372 \times 10^4 =$
<b>h.</b> $807,5 \times 10^{-5} =$
<b>i.</b> $953\,000\,000 \times 10^{-5} =$
<b>j.</b> $-41\,765\,300 \times 10^{-2} =$

**EXERCICE 6**

Compléter les pointillés :

<b>a.</b> $6,08 \times 10^{\dots} = 608\,000$
<b>b.</b> $87,52 \times 10^{\dots} = 875,2$
<b>c.</b> $764,987 \times 10^{\dots} = 7,64987$
<b>d.</b> $9\,875 \times 10^{\dots} = 98\,750\,000$
<b>e.</b> $49\,518 \times 10^{\dots} = 0,49518$
<b>f.</b> $642,063\,2 \times 10^{\dots} = 642\,063\,200$
<b>g.</b> $40\,328,16 \times 10^{\dots} = 0,000\,040\,328\,16$
<b>h.</b> $923,923 \times 10^{\dots} = 9\,239\,230\,000\,000$
<b>i.</b> $328\,143,684 \times 10^{\dots} = 0,000\,000\,032\,814\,368\,4$
<b>j.</b> $32,81 \times 10^{\dots} = 3\,281\,000\,000\,000\,000\,000\,000$