

Exercices puissances

Exercice 1 compléter (utilisez votre calculatrice si besoin)

$3 \times 3 \times 3 = 3^{\dots\dots\dots} = \dots\dots\dots$

$2^4 = \dots\dots\dots \qquad 3^2 = \dots\dots\dots \qquad 5^3 = \dots\dots\dots \qquad 2^2 = \dots\dots\dots$

$10 \times 10 \times 10 = 10^{\dots\dots\dots} = \dots\dots\dots$

$10 \times 10 \times 10 \times 10 = 10^{\dots\dots\dots} = \dots\dots\dots$

$10 \times 10 \times 10 \times 10 \times 10 = 10^{\dots\dots\dots} = \dots\dots\dots$

$10 \times 10 \times 10 \times 10 \times 10 \times 10 = 10^{\dots\dots\dots} = \dots\dots\dots$

Exercice 2 compléter (utilisez votre calculatrice si besoin)

$2 \times 10 \times 10 \times 10 \times 10 = \dots\dots \times 10^{\dots\dots\dots} = \dots\dots\dots$

$25 \times 10 \times 10 \times 10 = \dots\dots \times 10^{\dots\dots\dots} = \dots\dots\dots$

$2,15 \times 10 \times 10 \times 10 \times 10 \times 10 = \dots\dots \times 10^{\dots\dots\dots} = \dots\dots\dots$

$2 \times 10 \times 10 \times 10 \times 10 = \dots\dots \times 10^{\dots\dots\dots} = \dots\dots\dots$

Exercice 3 compléter (utilisez votre calculatrice si besoin)

$10^{-5} = \dots\dots\dots$	$10^{-2} = \dots\dots\dots$
$10^{-8} = \dots\dots\dots$	$10^{-1} = \dots\dots\dots$
$2 \times 10^{-3} = \dots\dots\dots$	$12 \times 10^{-3} = \dots\dots\dots$
$7 \times 10^{-5} = \dots\dots\dots$	$540 \times 10^{-8} = \dots\dots\dots$
$2 \times 10^{-3} = \dots\dots\dots$	$32 \times 10^{-5} = \dots\dots\dots$
$2 \times 10^{-3} = \dots\dots\dots$	$2,13 \times 10^{-4} = \dots\dots\dots$

Exercice 4 compléter (utilisez votre calculatrice si besoin)

25 000 000	$25 \times \dots\dots\dots$	$25 \times 10^{\dots\dots\dots}$
25 000 000	$250 \times \dots\dots\dots$	$250 \times 10^{\dots\dots\dots}$
25 000 000	$2500 \times \dots\dots\dots$	$2500 \times 10^{\dots\dots\dots}$
25 000 000	$2,5 \times \dots\dots\dots$	$2,5 \times 10^{\dots\dots\dots}$
25 000 000	$0,25 \times \dots\dots\dots$	$0,25 \times 10^{\dots\dots\dots}$
25 000 000	$0,025 \times \dots\dots\dots$	$0,025 \times 10^{\dots\dots\dots}$

Exercice 5 compléter (utilisez votre calculatrice si besoin)

Ecriture décimale	Ecriture scientifique	Ecriture de la machine
25 000 000	$2,5 \times 10^7$	
2 000		
7 000 000		
71 000 000		
- 712 000		
.....	$1,5 \times 10^4$	
.....	$2,5 \times 10^2$	
.....	$-2,5 \times 10^3$	
.....	$7,75 \times 10^9$	

Exercice 6 compléter (utilisez votre calculatrice si besoin)

$$3^2 \times 3^4 = \dots\dots\dots$$

$$10^2 \times 10^5 = \dots\dots\dots$$

$$10^{-2} \times 10^6 = \dots\dots\dots$$

$$\frac{2^3}{2^7} = \dots\dots\dots$$

$$\frac{2^7}{2^5} = \dots\dots\dots$$

$$\frac{10^6}{10^2} = \dots\dots\dots$$

$$(2^2)^3 = \dots\dots\dots$$

$$(10^3)^5 = \dots\dots\dots$$

$$(2 \times 3)^2 = \dots\dots\dots$$

$$(5 \times 3)^3 = \dots\dots\dots$$

$$(2 \times 5)^6 = \dots\dots\dots$$

$$\left(\frac{3}{2}\right)^3 = \dots\dots\dots$$

$$\left(\frac{10}{5}\right)^2 = \dots\dots\dots$$