



Nombre del alumno (a): _____

POTENCIAS DE BASE 10

Exponente positivo

$$\begin{aligned} 10^0 &= 1 \\ 10^1 &= 10 \\ 10^2 &= 10 \times 10 = 100 \\ 10^3 &= 10 \times 10 \times 10 = 1000 \\ 10^4 &= 10000 \end{aligned}$$

Exponente negativo

$$\begin{aligned} 10^{-1} &= \frac{1}{10} = 0.1 \\ 10^{-2} &= \frac{1}{10 \times 10} = \frac{1}{100} = 0.01 \\ 10^{-3} &= \frac{1}{10 \times 10 \times 10} = \frac{1}{1000} = 0.001 \\ 10^{-4} &= \frac{1}{10000} = 0.0001 \end{aligned}$$

1. Escribe las multiplicaciones como potencias

$$\begin{aligned} 10 \times 10 \times 10 \times 10 \times 10 \times 10 &= \underline{\hspace{2cm}} & 10 \times 10 \times 10 \times 10 &= \underline{\hspace{2cm}} \\ 10 \times 10 &= \underline{\hspace{2cm}} & 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 &= \underline{\hspace{2cm}} \\ 10 \times 10 \times 10 \times 10 \times 10 &= \underline{\hspace{2cm}} & 10 \times 10 \times 10 &= \underline{\hspace{2cm}} \end{aligned}$$

2. Calcula el valor de las potencias

$$\begin{aligned} 10^4 &= \underline{\hspace{2cm}} & 10^{-2} &= \underline{\hspace{2cm}} & 10^6 &= \underline{\hspace{2cm}} \\ 10^{-3} &= \underline{\hspace{2cm}} & 10^0 &= \underline{\hspace{2cm}} & 10^{-4} &= \underline{\hspace{2cm}} \end{aligned}$$

3. Escribe los números como una potencia

$$\begin{aligned} 100000 &= \underline{\hspace{2cm}} & 0.00001 &= \underline{\hspace{2cm}} \\ 0.0001 &= \underline{\hspace{2cm}} & 1000000000000 &= \underline{\hspace{2cm}} \\ 1000000000 &= \underline{\hspace{2cm}} & 0.0000000001 &= \underline{\hspace{2cm}} \\ 0.000001 &= \underline{\hspace{2cm}} & 1 &= \underline{\hspace{2cm}} \\ 10000000 &= \underline{\hspace{2cm}} & 0.00000000000001 &= \underline{\hspace{2cm}} \end{aligned}$$