

Potencias (básico)

Ficha 1. Conceptos básicos

1.1 * Indica verdadero/falso (corrige lo falso):

| | | |
|----------|----------|------------------------------------------|
| V | F | $3 \cdot 3 \cdot 3 \cdot 3 = 4^3$ |
| V | F | $2^5 = 5 \cdot 5$ |
| V | F | 4^6 es de base "4" y exponente "6" |
| V | F | 5^2 es de base "2" y exponente "5" |
| V | F | 8^3 se lee "ocho elevado al cubo" |
| V | F | 7^4 se lee "siete elevado al cuadrado" |

1.2 ** Completa:

$2^5 \rightarrow 5$ es...
 $7^5 \rightarrow 7$ es...
 $4 \cdot 4 \cdot 4 =$, y se lee " al "
 $11^2 \rightarrow$ se lee " al "

| | | | | | | |
|--------|-------|----------|----------|-----------|-------|--------|
| dos | 3^4 | 4_3 | tres | 7 | 5 | cuatro |
| índice | base | 2 | once | dúo | 4^3 | |
| | cubo | cuadrado | potencia | exponente | | |

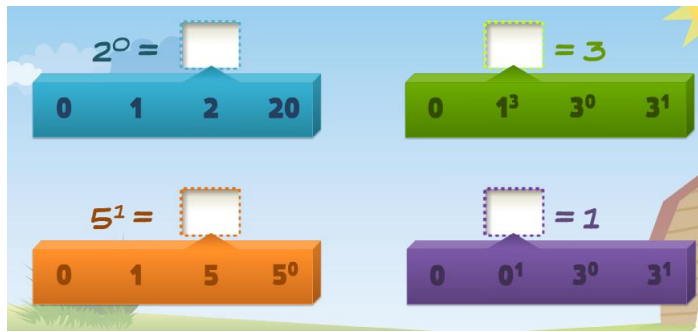
Ficha 2. Potencias de exponente "0" y "1"

2.1 * Indica verdadero/falso (corrige lo falso):

Indica verdadero o falso:

| | | | | | |
|----------|----------|-----------|----------|----------|-------------------|
| V | F | $3^0 = 3$ | V | F | $5 = 5^1$ |
| V | F | $1^1 = 1$ | V | F | $123456789^0 = 1$ |
| V | F | $1^0 = 1$ | V | F | $2^1 = 0$ |

2.2 ** Completa:



Ficha 3. Potencias de base "10"

3.1 * Resuelve:

$$300.000 =$$

$$1 =$$

$$20.000 =$$

$$40 =$$

$$5.000 =$$

3.2 ** Resuelve:

$$4 \cdot 10^3 =$$

$$2 \cdot 10 =$$

$$3 \cdot 10^0 =$$

$$-5 \cdot 10^4 = -$$

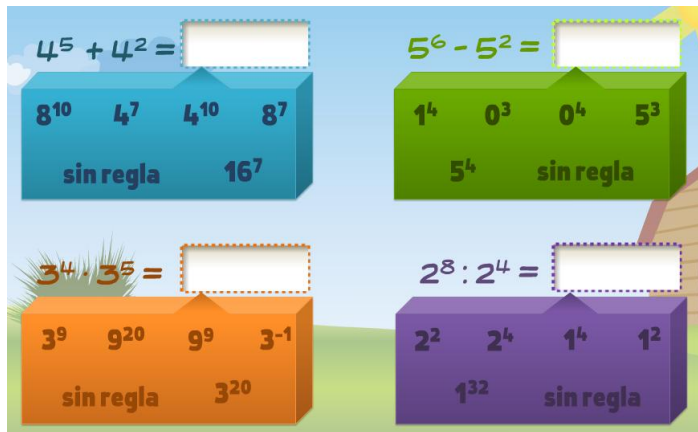
$$10^5 =$$

Ficha 4. Potencias de igual base

4.1 * Indica verdadero/falso (corrige lo falso):

| | | |
|----------------------------|----------------------------|---------------------------------|
| <input type="checkbox"/> V | <input type="checkbox"/> F | $7^5 + 7^3 = 7^{5+3} = 7^8$ |
| <input type="checkbox"/> V | <input type="checkbox"/> F | $7^5 - 7^3 = 7^{5-3} = 7^2$ |
| <input type="checkbox"/> V | <input type="checkbox"/> F | $7^5 \cdot 7^3 = 7^{5+3} = 7^8$ |
| <input type="checkbox"/> V | <input type="checkbox"/> F | $7^5 : 7^3 = 7^{5-3} = 7^2$ |

4.2 ** Completa:



$4^5 + 4^2 =$
 8¹⁰ 4⁷ 4¹⁰ 8⁷
 sin regla 16⁷

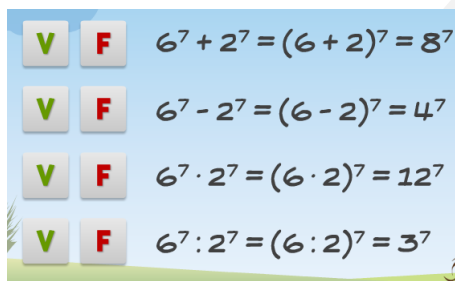
$5^6 - 5^2 =$
 1⁴ 0³ 0⁴ 5³
 5⁴ sin regla

$3^4 \cdot 3^5 =$
 3⁹ 9²⁰ 9⁹ 3⁻¹
 sin regla 3²⁰

$2^8 : 2^4 =$
 2² 2⁴ 1⁴ 1²
 1³² sin regla

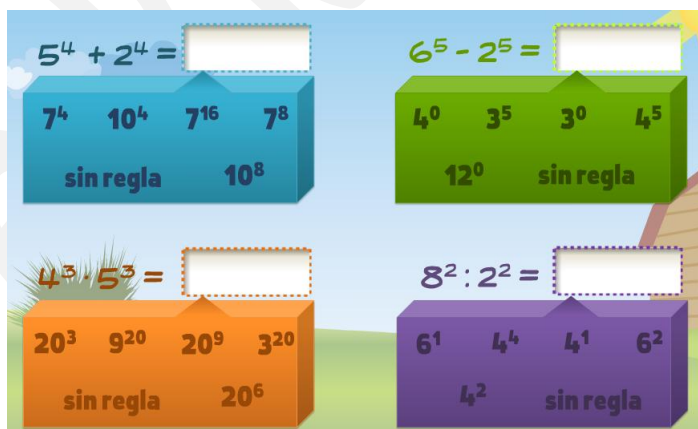
Ficha 5. Potencias de igual exponente

5.1 * Resuelve:



V F $6^7 + 2^7 = (6 + 2)^7 = 8^7$
 V F $6^7 - 2^7 = (6 - 2)^7 = 4^7$
 V F $6^7 \cdot 2^7 = (6 \cdot 2)^7 = 12^7$
 V F $6^7 : 2^7 = (6 : 2)^7 = 3^7$

5.2 ** Completa:



$5^4 + 2^4 =$
 7⁴ 10⁴ 7¹⁶ 7⁸
 sin regla 10⁸

$6^5 - 2^5 =$
 4⁰ 3⁵ 3⁰ 4⁵
 12⁰ sin regla

$4^5 \cdot 5^3 =$
 20³ 9²⁰ 20⁹ 3²⁰
 sin regla 20⁶

$8^2 : 2^2 =$
 6¹ 4⁴ 4¹ 6²
 4² sin regla