



# Matemáticas 1<sup>o</sup> Medio

## Curricular

forma: 1974207

1.- ¿Cuál es el valor de  $\left(\frac{4}{5}\right)^{-6} : \left(\frac{8}{25}\right)^{-6}$  ?

A)  $\left(\frac{5}{2}\right)^{12}$

B)  $\left(\frac{5}{2}\right)^6$

C)  $\left(\frac{5}{2}\right)^{-1}$

D)  $\left(\frac{5}{2}\right)^{-6}$

2.-  $6^{-5}$  es equivalente a:

A)  $-6^5$

B)  $-30$

C)  $\frac{1}{6^5}$

D)  $1$

3.-  $(-3)^2 + (-4)^1 - 2^3 =$

A)  $-21$

B)  $5$

C)  $13$

D)  $-3$

4.- Si  $m = 0,4$ ,  $n = 0,25$  y  $p = 1,25$ , entonces ¿cuál es el valor de la expresión

$$\frac{m^{-1} + n}{p}?$$

A)  $2$

B)  $\frac{9}{5}$

C)  $\frac{11}{5}$

D)  $\frac{13}{25}$

5.-  $-2^3 + 5^0 + 3^2 - 4^1 =$

- A) -6
- B) -4
- C) -2
- D) 0

6.- En la siguiente tabla se muestra el crecimiento ideal (en millones) que deberían tener las abejas en los siguientes años en relación con la cantidad inicial 2.5 millones de abejas.

Años	1	2	3	4
Cantidad de abejas	7,5	22.5	67.5	202.5

Si se desea estimar cuantas abejas habrán dentro de  $n$  años, ¿cuál de las siguientes formulas nos permite calcular lo pedido en millones de abejas?

- A)  $A(n) = 2.5(3)^n$
- B)  $A(n) = 2.5(3)^{12n}$
- C)  $A(n) = 2.5(3)^{\frac{n}{12}}$
- D)  $A(n) = (2.5 \cdot 3)^n$
- E)  $A(n) = (2.5 \cdot 3)^{12n}$

7.-Cuál es el valor de

$$\frac{(0,002)^{-1} \cdot (0,1)^2}{(0,2)^2}$$

- A)  $5^3$
- B)  $5 \cdot 10^2$
- C)  $10^3$
- D)  $10^{-3}$

8.-  $(\frac{5}{4})^0$  es equivalente a:

- A) 0
- B) 1
- C)  $\frac{5}{4}$
- D)  $\frac{4}{5}$

9.- El resultado de  $3^3 + (-2)^3 - 2^4 + 5^0$  es:

A) 4

B) 5

C) 6

D) 7

10.-  $\left(-\frac{2}{5}\right)^3 \cdot \left(\frac{2}{5}\right)^{-2} =$

A)  $-\frac{5}{2}$

B)  $-\frac{2}{5}$

C)  $-\frac{4}{25}$

D)  $\frac{2}{5}$

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# HOJA DE RESPUESTA

POR FAVOR, NO RAYAR NI ESCRIBIR SOBRE LOS CUADRADOS NEGROS



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