

Página 37, "piensa y practica."

1) a) $5^3 = 5 \cdot 5 \cdot 5 = 125$

b) $2^6 = \underbrace{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2}_{8 \cdot 8} = 64$

c) $\left(\frac{1}{2}\right)^3 = \frac{1}{2^3} = \frac{1}{8}$

d) $8^1 = 8$

e) $(-5)^3 = (-5) \cdot (-5) \cdot (-5) = -125$

f) $(-2)^6 = \underbrace{(-2)(-2)}_{4} \cdot \underbrace{(-2)(-2)}_{4} \cdot \underbrace{(-2)(-2)}_{4} = 4 \cdot 4 \cdot 4 = 64$

g) $\left(-\frac{1}{2}\right)^3 = \frac{1}{(-2)^3} = -\frac{1}{8}$

h) $(-8)^1 = -8$

2) a) $100\,000 = 10^5$

b) Mil millones = $10^3 \cdot 10^6 = 10^9$

c) $100\,000\,000 = 10^8$

d) Un billón = $10^6 \cdot 10^6 = 10^{12}$

3) $(-5)^3 = -125$

$1^3 = 1$

$(-4)^3 = -64$

$2^3 = 8$

$(-3)^3 = -27$

$3^3 = 27$

$(-2)^3 = -8$

$4^3 = 64$

$(-1)^3 = -1$

$5^3 = 125$

$0^3 = 0$

4) a) $250.467 = 2 \cdot 10^5 + 5 \cdot 10^4 + 4 \cdot 10^3 + 6 \cdot 10^2 + 7 \cdot 10^1$

b) $8400900 = 8 \cdot 10^6 + 4 \cdot 10^5 + 9 \cdot 10^2$

c) $42800500000 = 4 \cdot 10^{10} + 2 \cdot 10^9 + 8 \cdot 10^8 + 5 \cdot 10^5$

5) a) $4 \cdot 10^5 + 7 \cdot 10^4 + 8 \cdot 10^3 + 6 \cdot 10^2 + 2 = 478.602$

b) $5 \cdot 10^7 + 2 \cdot 10^6 + 8 \cdot 10^4 + 6 \cdot 10^3 + 2 \cdot 10 = 520.86.020$