Nivel 1

1.- $15^{12} \div 15^{11} + \sqrt[3]{216} + 200^{\circ}$

$15^{1} + 6 + 1$

22

RPTA

2.-

$$P = \frac{(2^5)^3 \cdot (3^4)^4}{(2^{15} \cdot 3^8 \cdot 2^4} \cdot 2$$

$$\frac{2^{15} \cdot 3^8}{2^{12} \cdot 3^8 \cdot 2^4} \cdot 2 \rightarrow 2^0 \cdot 3^0 \rightarrow 1 \cdot 1 \rightarrow 1$$

3.- $\sqrt{123904} = \sqrt{2^6 \times 11^2}$

$= 2^5 \times 11$

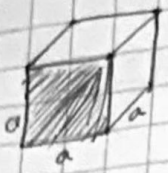
32×11

352

$3 + 5 + 2$

10

Nivel 2



1.- $a^3 = 216\,cm^3$

$a = \sqrt[3]{216}$

$a = 6\,cm$

$A_L = a^2$

$A_L = 6^2 = 36\,cm^2$

Asume el cubo

$A = 576\,cm^2$

$A = L^2 = 576\,m^2$

$L = \sqrt{576\,m^2}$

$L = 24\,cm$

$8c = L = 24\,cm$

$c = \frac{24\,cm}{8}$

$c = 3\,cm$

1.-

a.- $2\sqrt{64} - 12^0 + 3^4$

$2(8) - 1 + 81$

$16 - 1 + 81$

96

b.- $27^{\frac{1}{3}} + 49^{\frac{1}{2}} - 16^{\frac{1}{4}}$

$3 + 7 - 2$

8

c.- $\sqrt{\sqrt{\sqrt{2^{24}}}} \times \left(\sqrt[3]{\sqrt[4]{\sqrt{7}}}\right)^{96}$

$2^3 \times 7^2$

8×49

392

2.-

$9 \times 27 - (8^2 - 5) + 32 \times 8$

$243 - 59 + 256$

440

3.-

$$2^{3y-14} = 2^7$$

$$3y - 14 = 7$$

$$3y = 21$$

$$y = 7$$

4.-

$$L^3 = 343$$

$$L = \sqrt[3]{343}$$

$$L = 7$$

$$A = 7 \times 7$$

$$A = 49$$