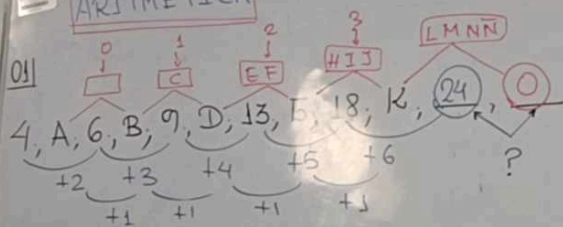
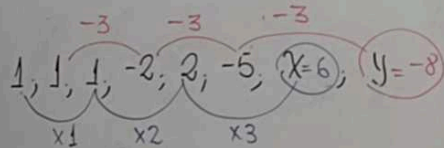


# ARITMÉTICA

01



02

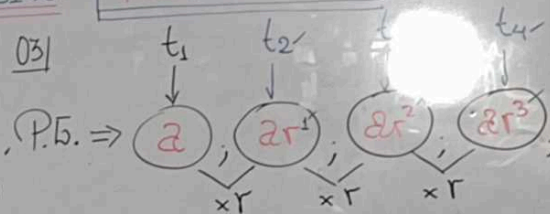


$$\therefore \frac{2X-Y}{5} = ? = \frac{2(6) - (-8)}{5} = \frac{12+8}{5} = \frac{20}{5} = 4$$

INTENSIVO:

## REPASO # 01

03



$$t_{13} = 512$$

$$ar^{12} = 512$$

$$ar^7 \cdot r^5 = 512$$

$$16r^5 = 512$$

$$r^5 = 32$$

$$r = 2$$

$$r + t_1 = ?$$

$$2 + 0,125$$

$$2,125$$

$$t_8 = 16$$

$$ar^7 = 16$$

$$a \cdot 2^7 = 2^4$$

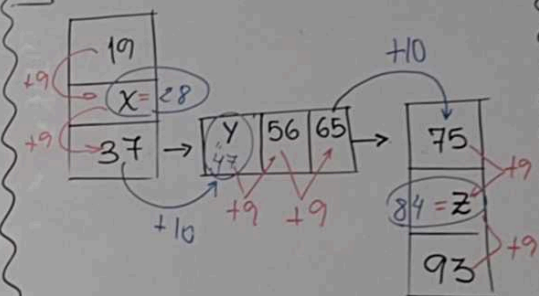
$$a \cdot 2^3 = 2^4$$

$$28 = 1$$

$$a = \frac{1}{8}$$

$$a = 0,125$$

04



$$X+Z = ?$$

$$28 + 84 = 112$$

08

$$S_1 = 1 + 3 + 5 + \dots + 19 = \frac{(19+1)^2}{2} = 100$$

# consecutivos IMPARES

$$S_2 = 1 + 4 + 9 + \dots + 100$$

$$S_2 = 1^2 + 2^2 + 3^2 + \dots + 10^2 = \frac{10(11)(10+1)}{6} = 385$$

# consecutivos elevados al cuadrado

$$S_3 = 0,1 + 0,2 + 0,3 + \dots + 8$$

$$S_3 = \frac{1}{10} + \frac{2}{10} + \frac{3}{10} + \dots + \frac{80}{10}$$

$$S_3 = \frac{1+2+3+\dots+80}{10} = \frac{\frac{80(81)}{2}}{10} = 324$$

#s consecutivos

$$S_1 + S_2 + S_3 = ?$$

$$100 + 385 + 324 = 809$$

09

$$1 + 2 + 3 + \dots + X = 91$$

$$X(X+1) = 91$$

$$X(X+1) = 182$$

$$X(X+1) = 13(13+1)$$

$$X = 13$$

$$1 + 3 + 5 + 7 + \dots + Y = 289$$

$$\frac{(Y+1)^2}{2} = 17$$

$$Y+1 = 34 \Rightarrow Y = 33$$

$$3X - Y = ?$$

$$3(13) - 33 = 39 - 33 = 6$$

10

$$S = 1 + 4 + 7 + 10 + \dots + 58$$

$t_1 = 1$ ,  $r = 3$ ,  $t_n = 58$

$$S = \frac{(1+58)(20)}{2} = 590$$

SUMA DE UNA P.A.

$$S = \frac{(t_1 + t_n)n}{2}$$

$$Op: t_n = t_1 + (n-1)r$$

$$58 = 1 + (n-1)3$$

$$57 = (n-1)3$$

$$19 = n-1$$

$$20 = n$$



# NÚMEROS RACIONALES (FRACCIONES)

15]  $(X) \left( \frac{1}{45} \right) = \frac{2}{3} - \frac{5}{9}$

$\frac{x}{45} = \frac{6-5}{9}$

$\frac{x}{45} = \frac{1}{9}$

$x=5$

16]  $5 + x = \frac{2}{3} \left( \frac{7}{4} \right)$

$\left( \frac{5}{8} \right) + x = \frac{7}{6}$

$x = \frac{7}{6} - \frac{5}{8}$

$x = \frac{28-15}{24}$

$x = \frac{13}{24}$

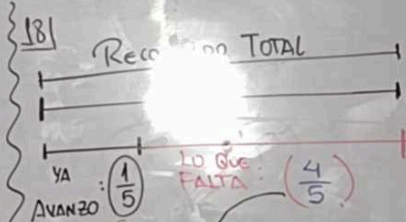
17]  $x + 9 = \frac{x}{\frac{4}{7}}$

$x + 9 = \frac{7x}{4}$

$4(x) + 36 = 7x$

$36 = 3x$

$12 = x$



$\frac{8}{15} = \frac{1}{5} + \frac{4x}{8}$

$\frac{8}{3} = 1 + 4x$

$8 = 3 + 12x$

$5 = 12x$

$\frac{5}{12} = x$

19]

FRACCIONES:

$\frac{ab}{ba} = \frac{68}{119}$

$\frac{ab}{ba} = \frac{4k}{7k}$

$ab = 4k$

$9 < ab < 100$

$9 < 4k < 100$

$2,25 < k < 25$

- 12
- 24
- 36
- 48
- 21
- 42
- 63
- 84

$k \in \{3, 4, 6, 7, 9, 12, 14, 21, 24\}$

08]  $S_1 = \frac{1}{2}$

$S_2 = \frac{1}{2}$

$S_3 =$

$S_3 =$

$S_3 =$

$S_4$

100+

# RAZONES Y PROPORCIONES

27

$$\frac{(A)}{(B)} = \frac{(C)}{(X)}$$

$$\frac{212}{18} = \frac{6}{X} \Rightarrow X = 9$$

$$(14) - (13) = (13) - (A)$$

$$1 = 13 - A$$

$$A = 12$$

$$\frac{(2)}{(6)} = \frac{(6)}{(B)}$$

$$B = 18$$

$$(2) - (5) = (1) - (C)$$

$$-3 = 3 - C$$

$$C = 6$$

$$29 \quad U + N + K + B = ?$$

$$12 + 33 + 36 + 125 + 4$$

$$210$$

$$20 - 16 = 16 - U$$

$$4 = 16 - U$$

$$U = 12$$

$$27 - N = N - 39$$

$$66 = 2N$$

$$33 = N$$

$$\frac{72}{P} = \frac{P}{18}$$

$$1296 = P^2$$

$$\sqrt{1296} = P$$

$$36 = P$$

$$\frac{5}{25} = \frac{25}{R}$$

$$R = 125$$

28

$$\text{Razon Geométrica} \Rightarrow \frac{2}{b} = 0,75$$

$$\frac{2}{b} = \frac{3K}{4K}$$

$$2 + b = 1141$$

$$3K + 4K = 1141$$

$$7K = 1141$$

$$K = 163$$

$$b - d = ?$$

$$4K - 3K = ?$$

$$K = ?$$

$$K = 163$$

30

$$\text{Aviones: } (A) = 6 +$$

$$\text{Barcos: } (B) = 10$$

$$16$$

Piloto:

$$\text{Aviones: } \frac{(A-1)}{2} = \frac{1}{2}$$

$$\text{Barcos: } \frac{B}{2A-2} = B$$

$$\text{MAXINERO: } \frac{(B-1)}{2} = \frac{3}{2}$$

$$\text{Aviones: } A =$$

$$2B - 2 = 3A$$

$$2B = 3A + 2$$

$$2(2A-2) = 3A + 2$$

$$4A - 4 = 3A + 2$$

$$A = 6$$