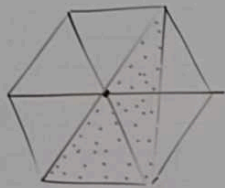
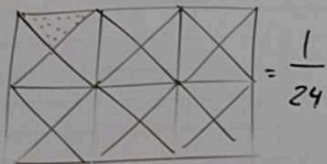


# FRACCIONES



$$\frac{3}{6} \rightarrow \frac{1}{2}$$

$\frac{N}{D} = \frac{\text{PARTES Q' se TOMA}}{\text{PARTES Q' se } \div 1}$

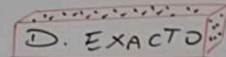


$$= \frac{1}{12}$$



$$\frac{3}{4}$$

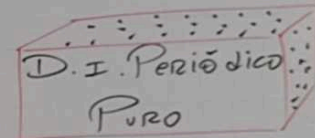
# NÚMEROS DECIMALES



$$0,73 = \frac{73}{100}$$

$$0,281 = \frac{281}{1000}$$

$$29,3156 = \frac{293156}{10000}$$



$$0,393939... \\ \overline{0,39} \\ \downarrow \\ \frac{39}{99}$$

$$0,61546154615... \\ \overline{0,6154} \\ \downarrow \\ \frac{6154}{9999}$$

SBS  
TOSCANO

D. I. P. Mix 70

$$0,741525252\dots = 0,74\overline{152}$$
$$\begin{array}{r} 74152 - 741 \\ \hline 99000 \end{array}$$

$$0,6315315\dots = 0,6\overline{315}$$
$$\begin{array}{r} 6315 - 6 \\ \hline 9990 \end{array}$$

$$23,861111\dots =$$

$$23,861111\dots$$

$$23,86\overline{1}$$

$$\begin{array}{r} 23861 - 2386 \\ \hline 900 \end{array}$$

$$(13) \frac{x+y}{11 \times 25} = 0,883636...$$

$$\frac{25x + 11y}{(11)(25)} = \frac{8748}{9900}$$

$$25x + 11y = 243$$

(4) + (13)

$$(16) \frac{2}{3} \cdot \frac{5}{7} \cdot \frac{6}{5} \cdot \frac{1}{4} \cdot 21 - x = \frac{1}{2} \cdot \frac{1}{3} \cdot \frac{2}{5} \cdot \frac{3}{2} \cdot 14$$

$$9 - x = \frac{7}{10}$$

$$\frac{9 - \frac{7}{10}}{1} = x$$

$$\frac{83}{10} = x$$

$$8,3 = x$$

$$(17) \frac{a-x}{b-x} = \left(\frac{a}{b}\right)^2$$

$$\frac{a-x}{b-x} = \frac{a^2}{b^2}$$

$$ab^2 - xb^2 = a^2b - xa^2$$

$$ab^2 - a^2b = xb^2 - xa^2$$

$$ab(b-a) = x(b^2 - a^2)$$

$$ab(b-a) = x(b+a)(b-a)$$

$$\frac{ab}{b+a} = x$$

$$\frac{7}{12}x \rightarrow \frac{5}{12}x$$

$$\frac{9}{13}x \rightarrow \frac{4}{13}x$$

$$\frac{3}{5}(x+9) \rightarrow \frac{2}{5}(x+9)$$

$$\frac{7}{11}x - 8 \rightarrow \frac{4}{11}x + 8$$

SBS  
TOSQAND

(18)



SBS  
TOSCANO

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

$$\frac{4}{3}x$$

$$\frac{2}{5}(x+8)$$

$$\rightarrow \frac{4}{11}x + 8$$

(18)

$$\frac{3K}{13K}$$

$$3K + 13K = 480$$

$$16K = 480$$

$$K = 30$$

$$N = \frac{3K}{3(30)} = 1$$

(19)

Piende  $\frac{1}{3}x \rightarrow \left(\frac{2}{3}x\right)$  Queda

$$\frac{1}{4}(\quad) \rightarrow \left[\frac{3}{4}(\quad)\right]$$

$$\frac{1}{5}[\quad] \rightarrow \frac{4}{5}\left[\frac{x}{4}\left(\frac{2}{3}x\right)\right]$$

$$\frac{2}{5}x$$

(20)

(x)

Gasta Queda

$$1^\circ \frac{1}{2}x + 2 \rightarrow \left(\frac{1}{2}x - 2\right)$$

$$2^\circ \frac{1}{2}\left(\frac{1}{2}x - 2\right) + 2 \rightarrow \frac{1}{2}\left(\frac{1}{2}x - 2\right) - 2$$

3°

$$4^\circ \rightarrow \frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}x - 2\right) - 2\right) - 2\right) - 2 = 0$$

$$x = 60$$

(21)

GASTA Queda

$$\frac{3}{4}x + 20 \rightarrow \left(\frac{1}{4}x - 20\right)$$

$$\frac{1}{5}(\quad) - 10 \rightarrow \left[\frac{4}{5}(\quad) + 10\right]$$

$$\frac{1}{2}[\quad] + 5 \rightarrow \left(\frac{1}{2}[\quad] - 5\right)$$

Queda = 15

$$\frac{1}{2}\left[\frac{4}{5}\left(\frac{1}{4}x - 20\right) + 10\right] - 5 = 15$$

$$\frac{4}{5}\left(\frac{1}{4}x - 20\right) = 30$$

$$\frac{x}{5} - 16 = 3$$

$$\frac{x}{5} = 46$$

$$x = 230$$

GASTA

$$230 - 15$$

$$215$$

(22)

$$\frac{1}{A} - \frac{1}{B} = \frac{4}{45}$$

$$\frac{B-A}{A \cdot B} = \frac{4}{45}$$

$$3\left(\frac{1}{A}\right) + 4\left(\frac{1}{B}\right) = \frac{47}{45}$$

$$\frac{3}{A} + \frac{4}{B} = \frac{47}{45}$$

$$\frac{3B + 4A}{A \cdot B} = \frac{47}{45}$$

$$B = 9$$

$$A = 5$$

$$2(A+B)$$

$$2(14)$$

$$28$$

(24)

$$T = x$$

$$H = \frac{5}{8}x$$

$$M = \frac{3}{8}x$$

$$D = 6 + 0,2 + 0,3 + 0,4 + \dots + 1,1$$

$$D = 6 + \frac{2}{9} + \frac{3}{9} + \frac{4}{9} + \dots + \frac{10}{9}$$

$$D = 6 + \frac{54}{9}$$

$$D = 12$$

$$H - M = D$$

$$\frac{5}{8}x - \frac{3}{8}x = D$$

$$\frac{2}{8}x = D$$

$$\frac{1}{4}x = 12$$

$$x = 48$$

BS  
SPAIN

18

$$\frac{3K}{13K} \cdot \frac{510(11)}{2} \cdot 1$$

9)

$$3K + 13K = 480$$

$$16K = 480$$

+8

$$K = 30$$

$$N = \frac{3K}{3(30)} = \frac{90}{3} = 30$$

9)

$$\text{Prado} \quad \frac{1}{3}x \rightarrow \left(\frac{2}{3}x\right)$$

$$\frac{1}{4}(\quad) \rightarrow \left[\frac{3}{4}(\quad)\right]$$

$$\frac{1}{5}[\quad] \rightarrow \frac{4}{5}\left[\frac{3}{4}\left(\frac{2}{3}x\right)\right]$$

$$\frac{11-1}{9}$$

$$\frac{2x}{3}$$

$$1, 1$$

20

Grpa Queda

$$1^o \quad \frac{1}{2}x + 2 \rightarrow \left(\frac{1}{2}x - 2\right)$$

$$2^o \quad \frac{1}{2}\left(\frac{1}{2}x + 2\right) + 2 \rightarrow \frac{1}{2}\left(\frac{1}{2}x - 2\right) - 2$$

3^o

$$1^o \rightarrow \frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}\left(\frac{1}{2}x - 2\right) - 2\right) - 2\right) - 2\right) = 0$$

X: 60

SBS  
TOSPAID

			12
9		1	
4			7
		6	
			9

$$a+b+c$$

$$\begin{array}{r} b=30 \\ 6+30+150 \\ \hline 186 \end{array}$$

$$=2(c)$$

$$150=c$$

24

7	6	6	7
6	7	6	7
6	6	7	7
7=a	7	7	5

26 menores que 8

→ 26

→ 26

→ 26

→ 26

26

26

$$a+12+b=26$$

$$a+b=14$$

4