

(01)

24

$$\begin{array}{c} M \quad A \\ 6X + 8(24 - X) = 192 \end{array}$$

$$6X + 216 - 8X = 192$$

$$M = 12 \quad 24 = 2X$$

$$A = 15$$

$$12 = X$$

(02)

1

$$1 = \frac{1(2)}{2}$$

2

$$3 = \frac{2(3)}{2}$$

3

$$6 = \frac{3(4)}{2}$$

$$\begin{array}{c} 10 \\ \downarrow \end{array} + \begin{array}{c} 55 \\ \downarrow \end{array} = \frac{10(11)}{2}$$

65

$$\textcircled{03} \quad \underbrace{x-8}_{+8} + \underbrace{x+8}_{-8} + \underbrace{\frac{x}{3}}_{\times 3} + \underbrace{6x}_{\div 6} = 100 \quad \textcircled{04}$$

$$8x + \frac{x}{3} = 100$$

$$25x = 300$$

$$x = 12$$

EBUNDO

$$x + 8 = 20$$

~~A) 10~~  
~~B) 14~~  
~~C) 12~~  
D) 16  
E) 13

$$\frac{120}{12} - \frac{120}{15} = 2 \quad \textcircled{05}$$

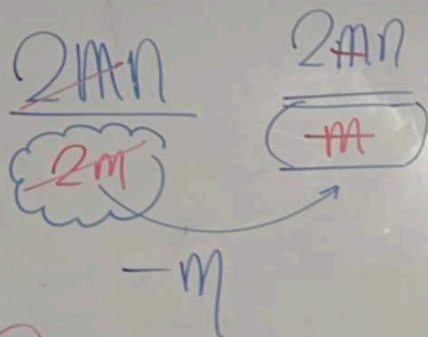
$$10 - 8 = 2$$

C: 4  
C: 12  
V: 10

$$\frac{150}{15} = 10$$

~~5/7~~  
~~5/21~~  
~~3/21~~  
 $\sqrt{2}$   
 $30 \times 5$

(06)



$$2n - n$$
$$n$$

(07)

Nº Botellas  $\frac{1}{2}$ :  $20X$

Nº Botellas 1:  $10X$

Nº Botellas 5:  $X$

TOTAL Botellas:  $31X = 31(600)$

$$10X + 10X + 5X = 15000$$
$$25X = 15000$$
$$X = 600$$

18600



5000  
00

08)

$$15P + 10V + 6D = 475$$

$$P + V + D = 55$$

Todos  
BAILAN:  $(V = D)$

$$15P + 16D = 475$$

$$(-15) \dots P + 2D = 55$$

$$-15P - 30D = -825$$

$$15P + 16D = 475$$

$$-14D = -350$$

$$D = 25$$

09)

HERENCIA:  $D + nK$

PERO

$D + K$  QUEDA:

$$2D + P$$

$$2D + P = D + K$$

$$(P = K - D)$$

$$nK - K$$

$$nK - K - 2D = nP$$

$$nK - K - 2D = nK - nD$$

$$(nD - 2D = K)$$

HERENCIA:  $D + n^2D - 2nD$

$$D(n^2 - 2n + 1)$$

$$D(n-1)^2$$

(10)

TOMAN:

$$\frac{-4}{4x} = 4x$$

BAILAN:

$$\frac{(3x+4)-2}{4x} = 4x$$

CONVERJAN:

$$2=x$$

$$T=12x$$

$$\underline{T=24}$$

(11)

$$G = \cancel{m}$$

$$M = m(m-1) = \cancel{m^2 - m}$$

$$P = \frac{m(m-1)(m+1)}{m(m^2-1)} = \cancel{m^3 - m}$$

$$T = \frac{m^3 + m^2 - m}{m(m^2 + m - 1)}$$

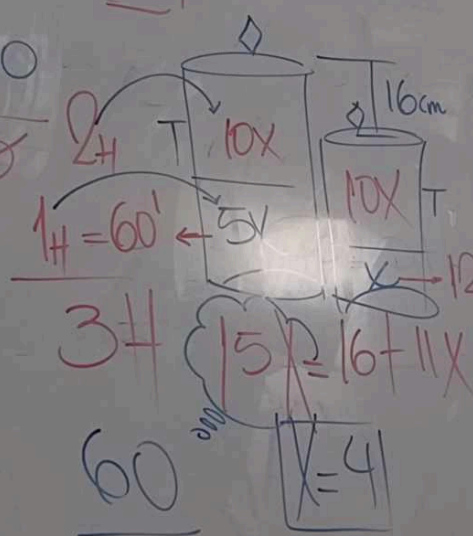
$$(12) \quad 200X = A + 900$$

$$- \quad 180X = A + 60$$

$$20X = 840$$

$$X = 42$$

(13)



(14)

L	M	N	J	V	S	D
1	2	3	4	5		
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		
63	65	69				

$63 + 65 + 69 = 197$

$$K = 5$$

$$C6: \langle -8, -1 \rangle \cup [8, 12]$$



(15)  $3x - 1 < x + 3$

$$2x < 4$$

$$x < 2$$

$$\therefore x = 1$$

(16)  $3x + 40 < x + 90$

$$2x < 50$$

$$(x < 25)$$

$$2x - 1 > x + 22$$

$$(x > 23)$$

$$\therefore x = 24$$

(17)  $5x + 8 > 213$

$$5x > 205$$

$$(x > 41)$$

$$3x - 1 < 128$$

$$3x < 129$$

$$(x < 43)$$

$$\therefore x = 42$$

(18)

$$(18) \quad 2x - 220 < 291$$

$$2x < 511$$

$$(x < 255,5)$$

$$3x + \frac{x}{2} > 890$$

$$7x > 1780$$

$$(x > 254, \dots)$$

$$\therefore x = 255$$

(19)

$$5x > 32$$

$$(x > 6,4)$$

$$4x < 32$$

$$(x < 8)$$

$$x = 7$$

$$\therefore x = 5$$

(20)

$$3x - 5733 \quad 4x + 9 < 65$$

$$3x > 38$$

$$(x > 12, \dots)$$

$$4x < 56$$

$$(x < 14)$$

$$x = 13$$

$$\frac{x - 10}{3} > 14$$

$$(x > 72)$$

$$x = 73$$

$$\frac{x + 2}{4} + 10 < 29$$

$$(x < 74)$$

$$7 + 3 = 10$$

$$C_5 = \langle -8, -1 \rangle \cup [8, 107]$$



(22)

$$2X - 60 > 24$$

$$2X > 84$$

$$X > 42$$

$$X = 43$$

(23)

$$X + 11 > 3X - 7$$

$$18 > 2X$$

$$9 > X$$

$$2X - 60 + 10 - 28 < 10$$

$$2X < 88$$

$$X < 44$$

Re: 53

$$X + 5 < 2X - 2$$

$$7 < X$$

$$X = 8$$

(24)

$$2X - 27 < 54$$

$$2X < 81$$

$$X < 40.5$$

$$3X - 78 > 39$$

$$3X > 117$$

$$X > 39$$

$$X = 40$$

(25)

$$2x + 5 \geq \frac{x}{2} - 7 \quad \frac{x}{3} - 7 \geq 4x + 15$$

$$4x + 10 \geq x - 14$$

$$x - 21 \geq 12x + 45$$

$$3x \geq -24$$

$$-66 \geq 11x$$

$$x \geq -8$$

$$-6 \geq x$$

$$x = -8, -7, -6$$

(26)

Nº MONEDAS 5/2

$$x + 3$$

Nº MONEDAS 5/5

$$x$$

Dimero:

Monedas:

$$2(x + 3) + 5x$$

$$2x + 3 < 17$$

$$7x + 6 > 41$$

$$2x < 14$$

$$7x > 35$$

$$x < 7$$

$$x > 5$$

$$x = 6$$

$$7(6) + 6 = 48$$

$$CS = \{-8, -7\} \cup [8, 207]$$

$$(27) \quad x^2 + 2 < 6(x-1)$$

$$x^2 - 6x + 8 < 0$$

$$(x-2)(x-4) < 0$$

$$(x=3)$$

$$6(3) - 1$$

17

$$(28) \quad \text{Nº FILAS: } x$$

$$\text{Total} = 13x \rightarrow 13(67) = 871$$

$$212 < \frac{13x-10}{4} < 218$$

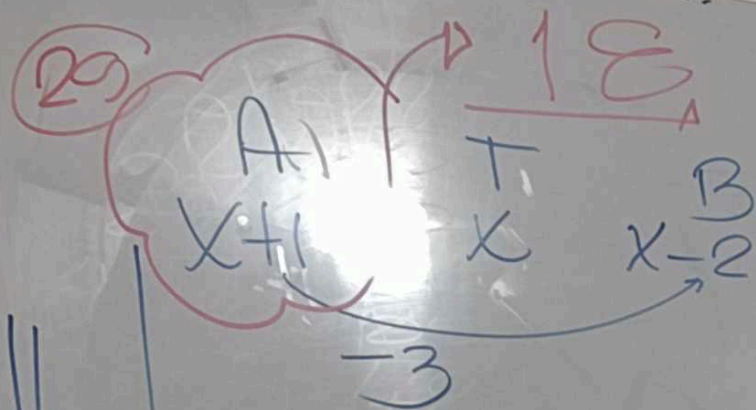
$$848 < 13x - 10 < 872$$

$$858 < 13x < 882$$

$$66, \dots < x < 67, \dots$$

$$x = 67$$





antaj

$$4(x+1) - 3x + 2(x-2)$$

$$150 < 9x < 160$$

$$161 \dots < x < 171 \dots$$

$$x = 17$$

(30)

$$3x - 10 = 5(x - 10)$$

$$3x - 10 = 5x - 50$$

$$40 = 2x$$

$$20 = x$$

(31)

1909	1930
5x	5(71) + 21
x	35 + 21
	(56)

$$5x + 21 = 2(x + 21)$$

$$5x + 21 = 2x + 42$$

$$3x = 21$$

$$x = 7$$

(36)

BARBARA

PENÉLOPE

Pas

$2x$

Pre

$3x$

fut

$4x$

$3x$

$$4x - 3x = 12$$

$$x = 12$$

24

(37)

EVELYN

IGÉLO

Pas

10

Pre

$2x$

$2x$

$3x$

$$4x = 3x + 10$$

$$x = 10$$

(40)

fut

$3x$

10

Pas

$x$

$4x$

10

2

50

(40)

PAS<sub>1</sub>

PAS<sub>2</sub>

P<sub>RE</sub>

10

~~X~~

2X

~~9X~~

27

(4)

TU

2X

~~3X~~

10X

Suma: 57

19X = 57

(X=3)

2010

~~10~~

20100 -

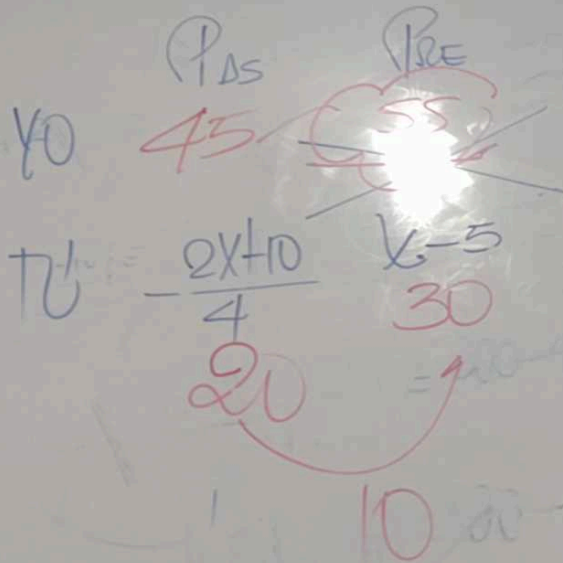
20007

Ya cumplieron

3 No Cumplan  
año 99



(46)



for  
 $2x = 70$

45

$2x + 10 + x - 5 = 110$

$3x = 105$

$x = 35$

(47)  $Ax + E = AC$

~~$10m + m + n = 10m + n$~~

$10m + m + m + n = 10m + n$

$10m = 8m$

$5m = 4m$

(48)

He  
Niet

$1945 + 54 = 1999$

$$(-5 = 110)$$

Ac  
~~19 min~~  
~~DM + H~~

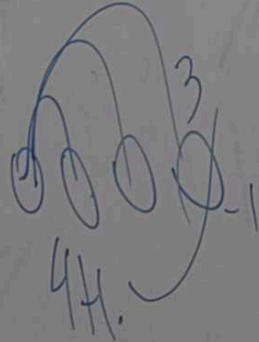
$$\begin{array}{r} 1945+ \\ 54 \\ \hline 1999 \end{array}$$

$$(48) + 1: X \checkmark$$

C/Hermanos:  $X-1$

Nieto:  $X(X-1) = 3 \checkmark$

$$E = 4X^2$$



$$60 < 4X^2 < 90$$

$$(X=4)$$

$$4/16$$

$$64 \checkmark$$

$$\begin{array}{r} X+K= \\ 5 \quad 5 \\ \hline 2 \quad 2 \end{array}$$