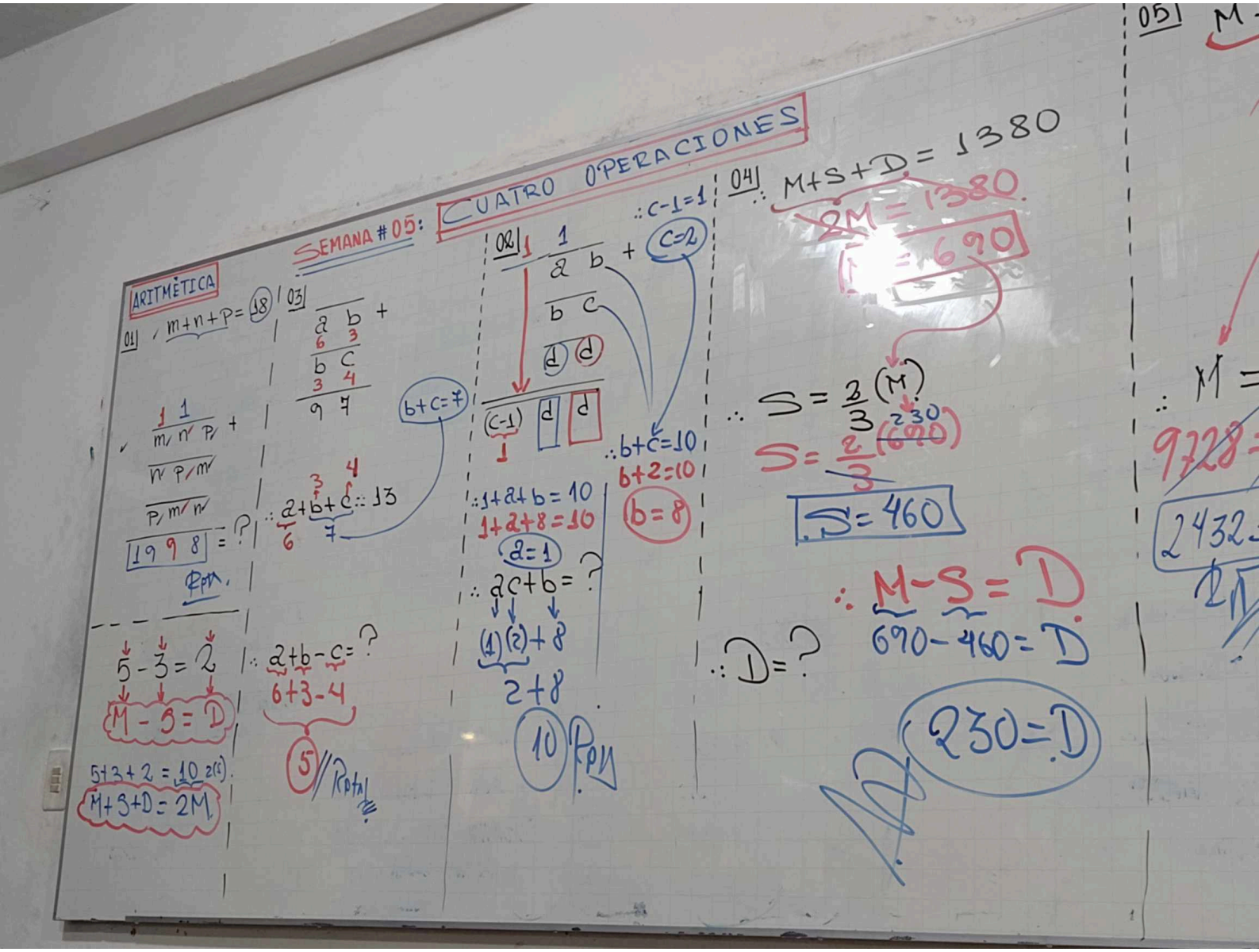
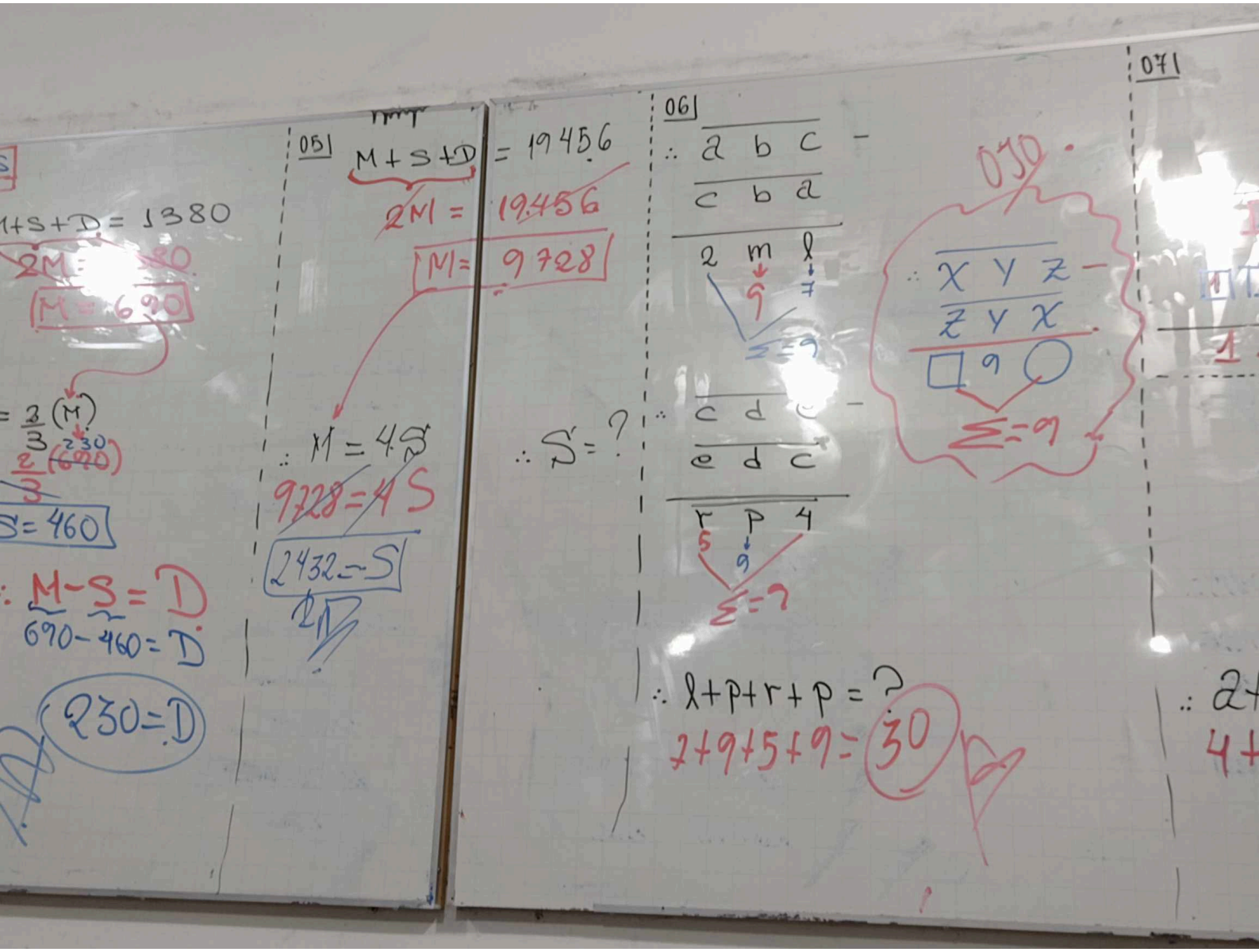

SEMANA # 05: CUATRO OPERACIONES
ARITMÉTICA
01) m+n+p=18
1998 = ?
Rpta.
5-3=2
M-S=D
5+3+2=10
M+S+D=2M
02) 1 1 / a b + / b c / d d / (c-1) d d
∴ c-1=1
c=2
∴ b+c=10
6+2=10
b=8
∴ 1+a+b=10
1+a+8=10
a=1
∴ ac+b=?
(1)(2)+8
2+8
10 Rpta
03) a b + / 6 3 / b c / 3 4 / 9 7
b+c=7
∴ a+b+c=13
6 3 4
7
∴ a+b-c=?
6+3-4
5 Rpta
04) ∴ M+S+D=1380
2M=1380
M=690
∴ S=2/3 (M)
S=2/3 (690)
S=460
∴ M-S=D
690-460=D
∴ D=?
230=D
05) M
∴ M =
9728
2432
2


M+S+D = 1380
2M = 1380
M = 690
= 3 (M)
3
2
3
S = 460
∴ M - S = D
690 - 460 = D
230 = D
05|
M+S+D = 19456
2M = 19456
M = 9728
∴ M = 4S
9728 = 4S
2432 = S
06|
∴ a b c -
c b a
2 m l
9
7
∴ c d e -
e d c
r p 4
5
9
Σ = 7
∴ l+p+r+p = ?
7+9+5+9 = 30
∴ S = ?
070
∴ x y z -
z y x
□ 9 ○
Σ = 9
071
∴ 2
4+

070

$$\begin{array}{r} XYZ \\ -\ ZYX \\ \hline \square\,9\,\bigcirc \end{array}$$

$\therefore Z = 9$

071

$$\begin{array}{r} 1\ 2 \\ a_4\,b_3\,c_8 \times 3\cdot 3 \\ \hline 1\ 3\ 1\ 4 \\ +\ 1\ 3\ 1\ 4 \\ \hline 1\ 4\ 4\ 5\ 4 \end{array}$$

$\therefore a+b+c = ?$

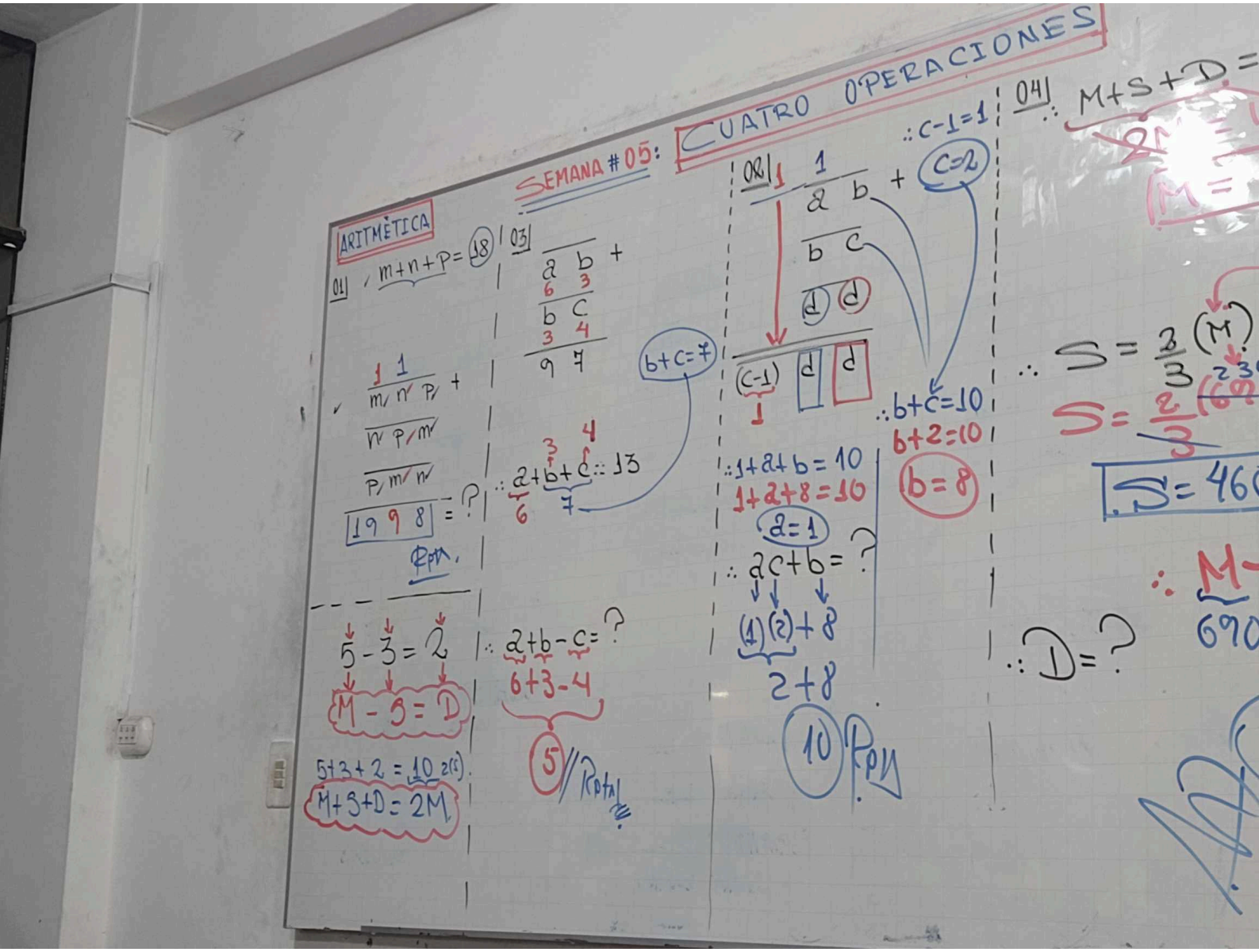
$4+3+8 = 15$

081

$$\begin{array}{r} 3\ 2\ 4 \\ a_1\,b_4\,c_3\,d_5 \times 2\ 8 \\ \hline 1\ 1\ 1\ 4\ 8\ 0 \\ +\ \square\ 2\ 8\ 7\ 0 \\ \hline 4\ 0\ 1\ 8\ 0 \end{array}$$

$\therefore a \times b \times c \times d = ?$

$1 \times 4 \times 3 \times 5 = 60$


SEMANA #05: CUATRO OPERACIONES
ARITMÉTICA
01) m+n+p=18
03)
04)
02)
Rpta.
Rpta.
Rpta.

RACIONES

C-1=1

C=2

=10

2=10

=8

04) ∴ M+S+D = 1380

2M = 1380

M = 690

∴ S = 2/3 (M)

S = 2/3 (690)

S = 460

∴ M - S = D

690 - 460 = D

∴ D = ?

230 = D

05) M+S+D

2M =

M =

∴ M = 4S

9728 = 4S

2432 = S

09

$\overline{abc} \times 23$

	a	b	c	
	4	3	5	
	1	3	0	5
	8	7	0	
	1	0	0	5

$\therefore a+b+c = ?$

$4+3+5$

12 b.

DIVIDENDO (D) / DIVISOR (d)

COCIENTE (q)

RESIDUO (r)

$D = (d)(q) + r$

$r_{máx.} = d-1$

$r_{mín.} = 1$

10| 1081 | 2x / x

(x)

$\therefore 1081 = (2x)(x) + x$

$1081 = 2x^2 + x$

$0 = 2x^2 + 1x - 1081$

$2x \rightarrow +47 = +47x$

$x \rightarrow -23 = -46x$

$+x$

$\therefore 2x+47=0 \quad | \quad x-23=0$

$x = -\frac{47}{2} \quad | \quad x = 23$

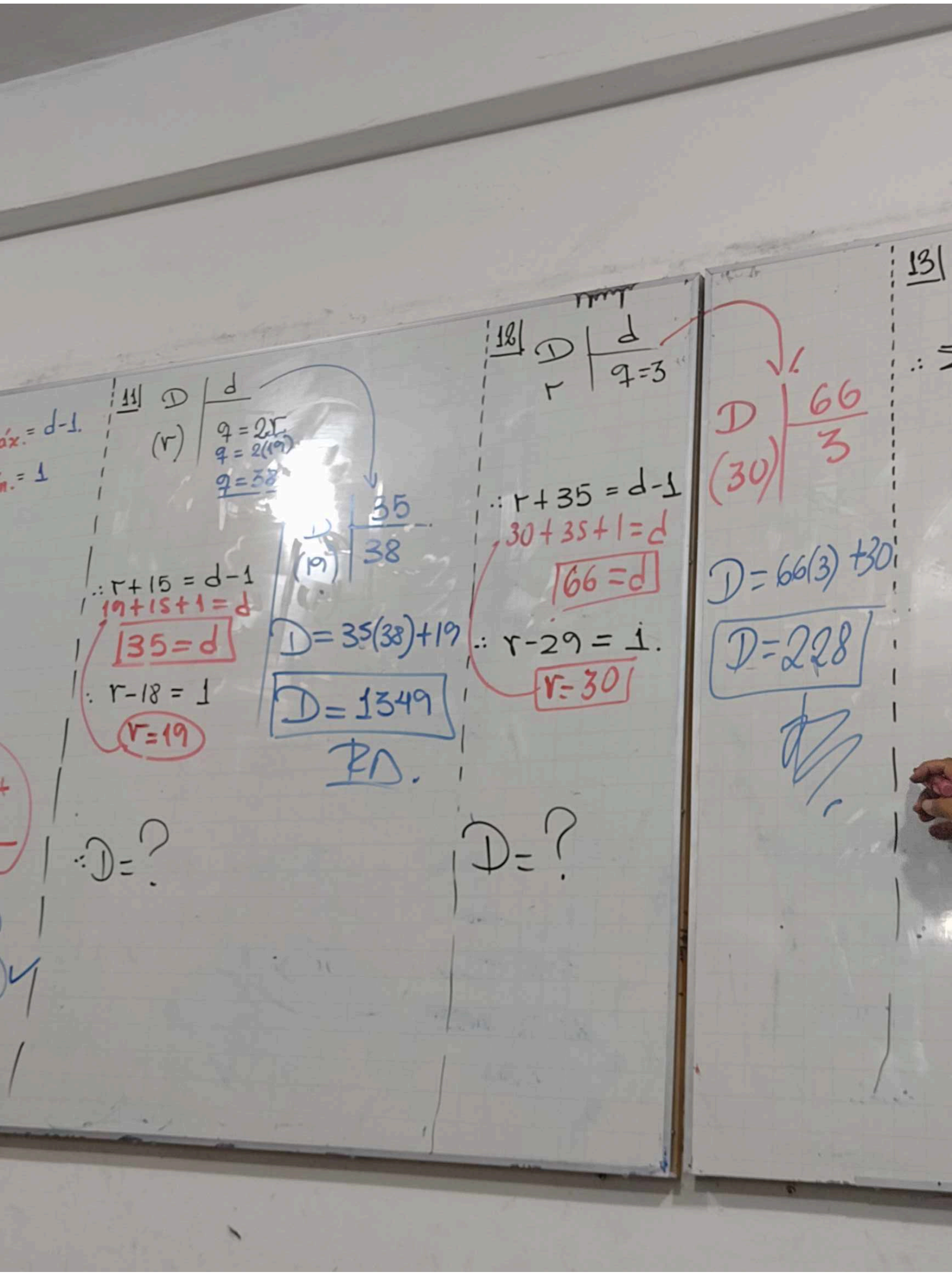
$\therefore 2x = ?$

$2(23) = 46$ Pata

11|

$\therefore r$

19


11| D | d
(r) | q = 2r
q = 2(19)
q = 38
D | 35
(19) | 38
D = 35(38) + 19
D = 1349
RD.
∴ r + 15 = d - 1
19 + 15 + 1 = d
35 = d
∴ r - 18 = 1
r = 19
∴ D = ?
18| D | d
r | q = 3
∴ r + 35 = d - 1
30 + 35 + 1 = d
66 = d
∴ r - 29 = 1.
r = 30
D = ?
D | 66
(30) | 3
D = 66(3) + 30
D = 228
13|

máx. = d-1.

mín. = 1

11| D | d
(r) | q = 2r
q = 2(19)
q = 38

∴ r+15 = d-1
19+15+1 = d
35 = d

∴ r-18 = 1
r = 19

D | 35
(19) | 38

D = 35(38)+19
D = 1349
RD.

∴ D = ?

12| D | d
r | q = 3

∴ r+35 = d-1
30+35+1 = d
66 = d

∴ r-29 = 1.
r = 30

D = ?

D | 66
(30) | 3

D = 66(3)+30
D = 228

13|

13| $a+b+c+d=19$

$\therefore \Sigma$ CIFRAS DEL C. A. $(\overline{abcd})$ = ?

MÉTODO "VIX":

C.A. $(9-a)(9-b)(9-c)(10-d)$

$9-a+9-b+9-c+10-d$

$37-(a+b+c+d)$

$37-19=18$ RA

∴ C.A.: COMPLEMENTO ARITMÉTICO

CANTIDAD	C.A.
a	$10-a$
$\overline{ab}$	$100-\overline{ab}$
$\overline{abc}$	$1000-\overline{abc}$

14|

C.A$(\overline{abc})$ + C.A$(\overline{cba})$ = 1031

$1000-\overline{abc}+1000-\overline{cba}=1031$

$969=\overline{abc}+\overline{cba}$

$$\begin{array}{r} \overline{abc} \\ 4\ 3\ 5 \\ \hline \overline{cba} \\ 5\ 3\ 4 \\ \hline 969 \end{array} +$$

$\therefore a+b+c=?$

$4+3+5=12$ RA

15]

$\therefore C.A.(\overline{abc}) = \overline{(b-1)(2b)(a+1)}$

$\Downarrow$

$(9-a)(9-b)(10-c) = \overline{(b-1)(2b)(a+1)}$

$\therefore 9-b=2b$

$9=3b$

$3=b$

$\therefore 9-a=\underbrace{b-1}_{3}$

$9-a=2$

$7=a$

$\therefore 10-c=a+1$

$\underbrace{\quad}_{7}$

$10-c=8$

$2=c$

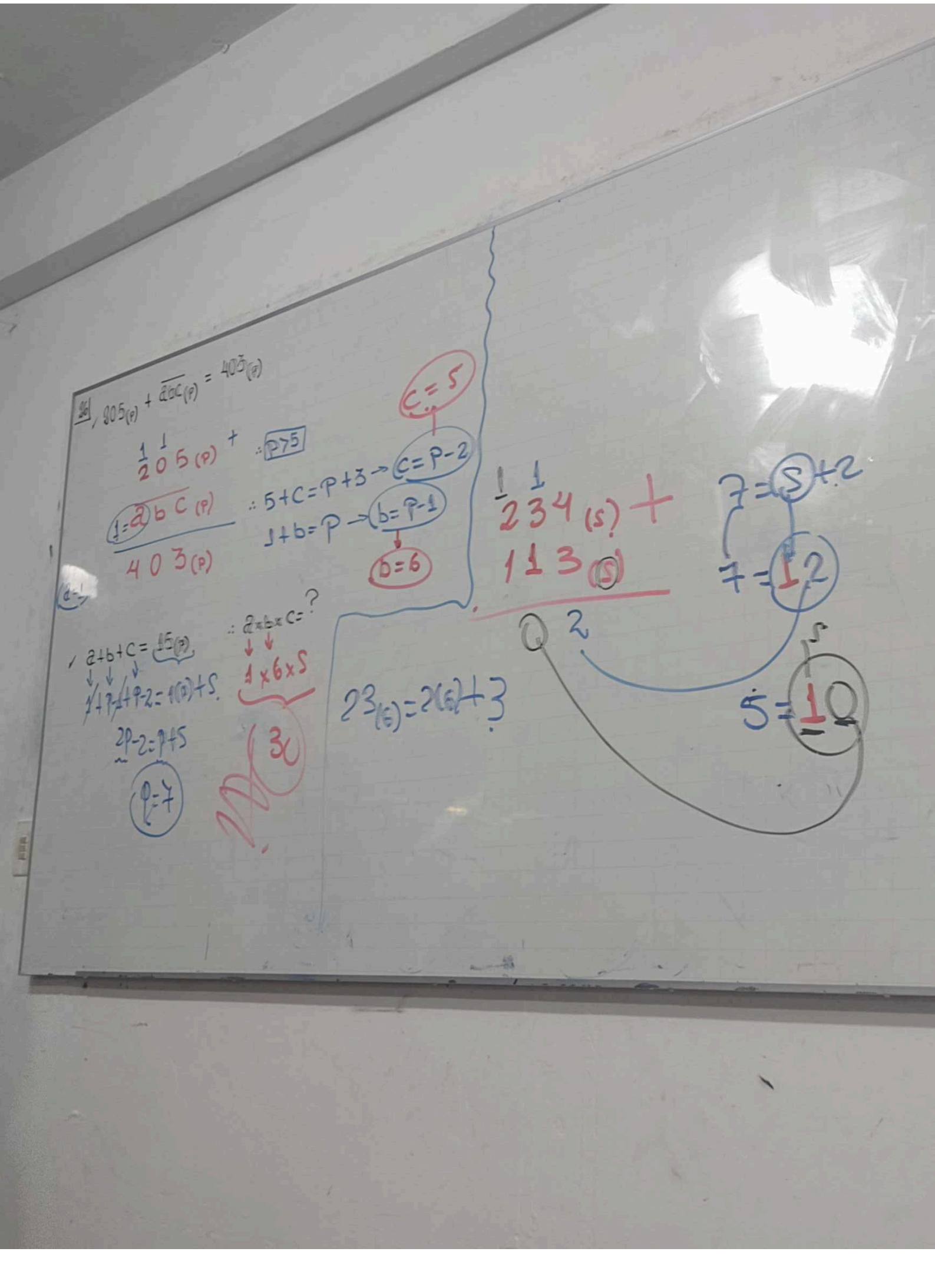
$2x$

x

$3x$

$\therefore a+b+c=?$

$3+7+2=12$


86) $805_{(p)} + \overline{abc}_{(p)} = 405_{(p)}$
$\overset{1}{2}\overset{1}{0}5_{(p)} +$
$\therefore p > 5$
$1=2\,b\,C_{(p)}$
$403_{(p)}$
$\therefore 5+C=p+3 \rightarrow C=p-2$
$C=5$
$1+b=p \rightarrow b=p-1$
$b=6$
$a=1$
$\therefore a \times b \times c = ?$
$1 \times 6 \times 5$
30
$a+b+c=15_{(p)}$
$1+7+5=1(p)+5$
$2p-2=p+5$
$p=7$
$\overset{1}{2}\overset{1}{3}4_{(5)} +$
$113_{(5)}$
$23_{(6)}=2(6)+3$
$7=5+2$
$7=12$
2
$5=10$