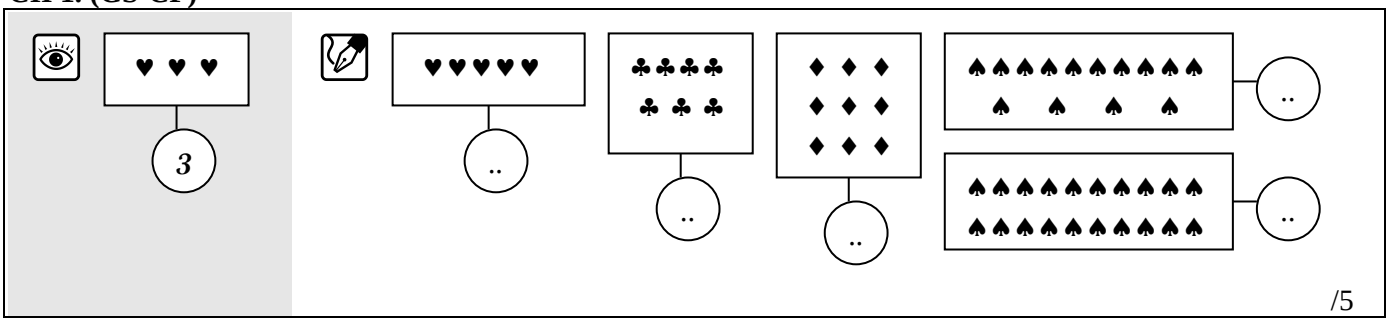
CASNAV DE L'ACADÉMIE DE LILLE

Evaluation diagnostique non-verbale en mathématiques pour élèves allophones

Cycle 2 (CP/CE1/CE2)	NOM et Prénom :	Temps :

CII 1. (GS-CP)



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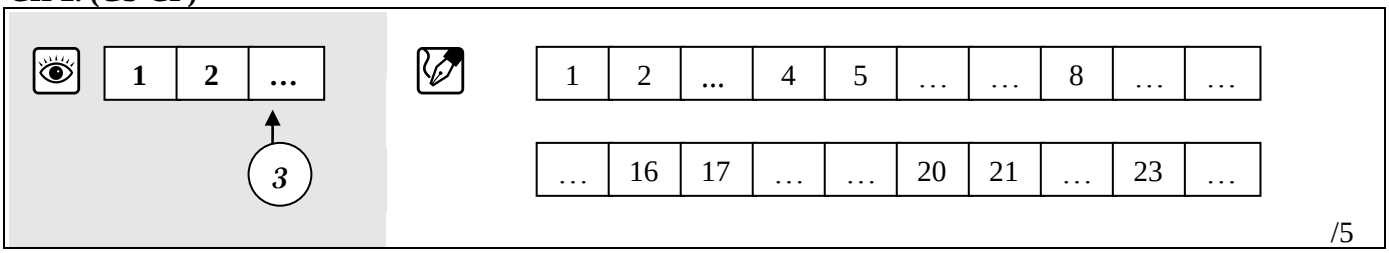
CII 2. (GS-CP)



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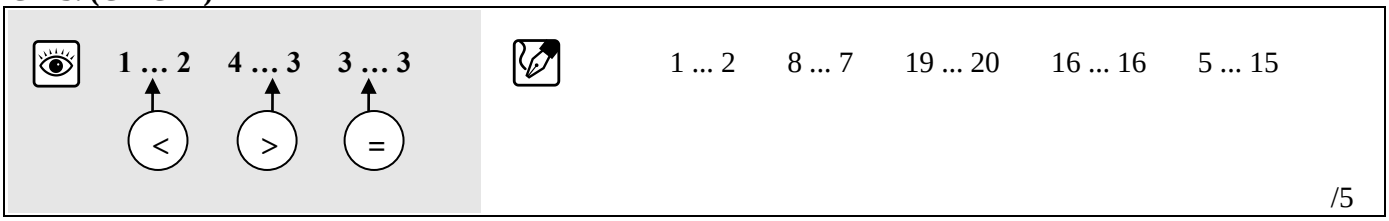
CII 3. (CP-CE1)



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CII 4. (CP-CE1)

3 + 2 = …

10 + 20 = …

$$\begin{array}{r} 5 \\ +\ 3 \\ \hline \ldots \end{array} \qquad \begin{array}{r} 7 \\ +\ 9 \\ \hline \ldots \end{array} \qquad \begin{array}{r} 28 \\ +\ 71 \\ \hline \ldots \end{array}$$

/5

CII 5. (CP-CE1)

5 – 2 = …

70 – 30 = …

$$\begin{array}{r} 9 \\ -\ 7 \\ \hline \ldots \end{array} \qquad \begin{array}{r} 13 \\ -\ 3 \\ \hline \ldots \end{array} \qquad \begin{array}{r} 86 \\ -\ 54 \\ \hline \ldots \end{array}$$

/5

Cycle 2 (CP/CE1/CE2)	NOM et Prénom :

CII 6. (CP-CE1)

2 x 2 = … 3 x 2 = … 2 x 7 = …

8 = 2 x ⋯ 12 = 2 x ⋯

/5

CII 7. (CE1-CE2)

5 < 7 4 > 2 3 = 3 2 ≠ 1

7 ... 10 19 ... 9 95 ... 57

32 ... 32 501 ... 498

/5

CII 8. (CE1-CE2)

15	37	88	46	500
+ 4	+ 12	+ 2	+ 87	+ 79
…..	…..	……	…….	…….

/5

CII 9. (CE1-CE2)

16	35	27	398	127
– 6	– 7	– 19	– 58	– 69
…..	….	……..	…….	…….

/5

Cycle 3 (CM1/CM2/6ème)	NOM et Prénom :	Temps :

CIII 1. (CE2-CM1)

436
x 12
872
4360
5232

8	7	63	123	78
x 5	x 9	x 4	x 45	x 96
....	.....	.....	.....	.....
			.....	.....
			.....	.....

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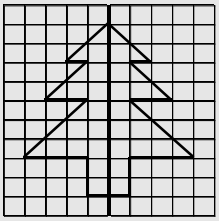
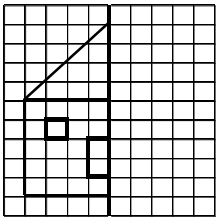
CIII 2. (CE2-CM1)





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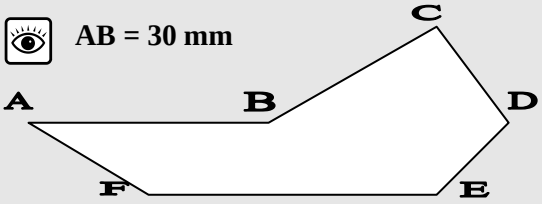
CIII 3. (CE2-CM1)

AB = 30 mm



BC = …….. mm CD = …….. mm

DE = …….. mm EF = …….. mm

FA = …….. mm

/5

CIII 4. (CM1-CM2)

1 > 0,1 20,01 < 20,10

1 ... 0,9 7,9 ... 8,1 0,1 ... 1

0,2 ... 0,09 9,5 ... 9,50

/5

CIII 5. (CM1-CM2)

55000 + 500 + 50 + 5 = …….

94376 + 5623 = …….

75394 + 82063 = …….

31604	82051
+ 87295	+ 97369
= ..……	= …….

/5

Cycle 3 (CM1/CM2/6ème) **NOM et Prénom :**

CIII 6. (CM1-CM2)

25,5
+ 76,32
= 101,82

17 + 0,77 = ….. 50,05 + 5,5 = ….. 375 + 21,6 = …..

48,7 + 89,6 = ….. 264 + 73,6 + 18,95 = …..

/5

CIII 7. (CM1-CM2)

90 571 - 500 - 70 - 1 = …….

87 965 – 15 623 = …….

85 063 – 84 964 = …….

87695
- 31204
= ……..

92051
- 87369
= ……..

/5

CIII 8. (CM1-CM2)

37,8 – 5 = ….. 49 – 6,5 = …..

38,76 – 32,14 = ….. 349,6 – 27,85 = ….. 872 – 86,14 = …..

/5

CIII 9. (CM1-CM2)

888 x 100 = ……

7 x 10 000 = ……

500 x 200 = ……

654
x 321
……
……
……
= ……

8205
x 673
……
……
……
= ……

/5

CIII 10. (CM2-6ème)

5,62 x 1000 = ….. 378,2 x 0,01 = …..

2,5 x 480 = ….. 176 x 0,340 = ….. 79,1 x 3,52 = …..

/5

CIII 11. (CM2-6ème)

1470 | 42
- 126 | 35
210
- 210
0

275 : 100 = ….. 72 : 8 = …..

2742 : 3 = ….. 185 : 37 = …..

75 : 30 = …..

/5

Cycle 3 (CM1/CM2/6ème) **NOM et Prénom :**

CIII 12. (CM2-6ème)

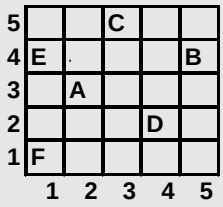
$\frac{10}{4}$ = ….. $\frac{925}{370}$ = …..

3230 : 68 = ….. 323 : 6,8 = ….. 3284 : 16,42 = …..

/5

CIII 13. (CM2-6ème)

A (2,3)



B (… , …) C (… , …)

D (… , …) E (… , …)

F (… , …)

/5

CIII 14. (CM2-6ème)

1 h = ……. mn 1 mn = ……. s

1 km = ……. m 1 m = …… cm 1 cm = ……. mm 50000 m = ……. km

1 t = ……. kg 1 kg = …… g 1 g = ……. mg 3000 g = …… kg

/5

Cycle 4 (5ème/4ème/3ème)	NOM et Prénom :	Temps :

CIV 1. (6ème-5ème)

25 / 100 = 0,25

93/100 = ... 7/10 = ... 250/..... = 2,5 ...../100 = 3,18 12/10 = ...

/5

CIV 2. (6ème-5ème)

18/30 = 2 x 3 x 3 / 2 x 3 x 5 = 3/5

2/6 = …….. = ….. 50/40 = …….. = …..

20/28 = …….. = ….. 42/36 = …….. = ….. 810/720 = …….. = …..

/5

CIV 3. (6ème-5ème)

3/2 x 5/2 = 3x5/2x2 = 15/4

1/5 x 5/1 = …….. = ….. 3/2 x 2/3 = …….. = …..

7/3 x 2/5 = …….. 15/30 x 8/2 = …….. = ….. 72/35 x 7/8 = …….. = …..

/5

CIV 4. (5ème-4ème)

3/2 + 5/2 = 8/2 = 4

7/5 – 2/5 = 5/5 = 1

3/4 + 9/4 = …….. = ….. 2/5 + 8/5 = …….. = …..

7/3 – 1/3 = …….. = … 17/7 – 3/7 = …….. = … 3/2 – 1/2 = …….. = …

/5

CIV 5. (5ème-4ème)

7,2/9 = 0,8

3,5/5 = ….. 72/1,2 = ….. 53,2/1,9 = ….. 10,35/2,3 = ….. 0,1/0,025 = …..

/5

Cycle 4 (5ème/4ème/3ème) **NOM et Prénom :**

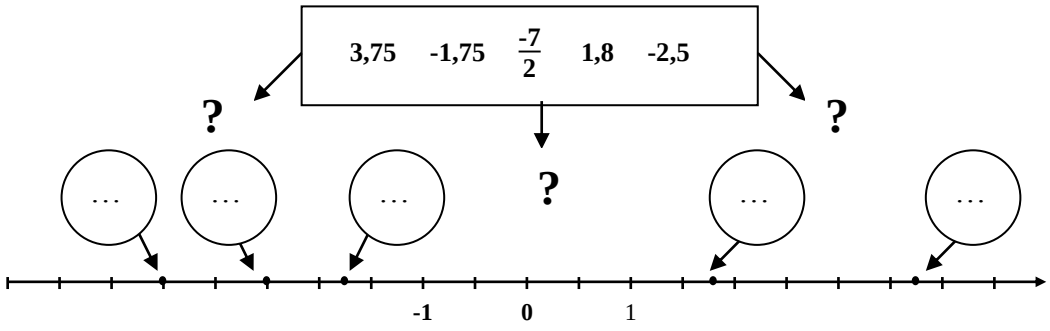
CIV 6. (5ème-4ème)

75 / 100 = 75 %

37/100 = ….. % 5/10 = ….. % 1/4 = ….. % 8,74/38 = ….. % 0,325/10 = ….. %

/5

CIV 7. (5ème-4ème)



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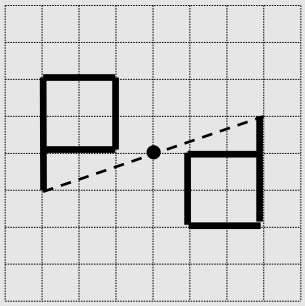
CIV 8. (5ème-4ème)

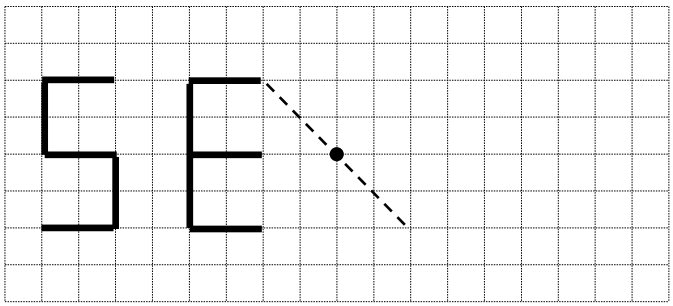
12,8 + ……. = 53,1 ……. + 25,6 = 33,51 0,25 + ……. = 15,75

3,8 x ……. = 15,2 23 x ……. = 471,5

/5

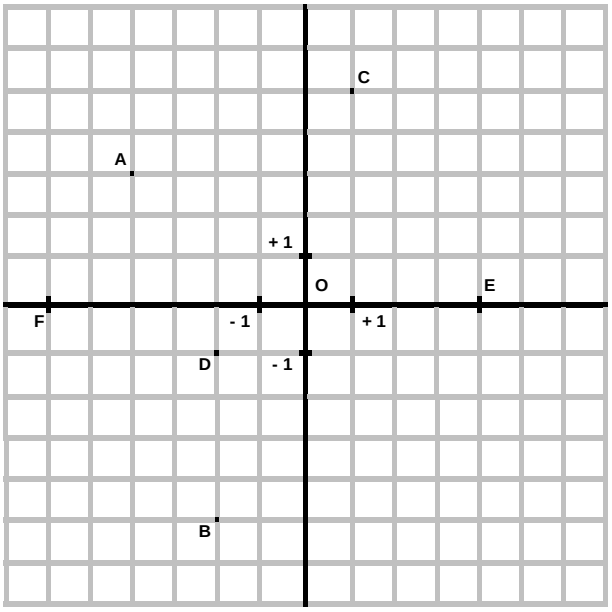
CIV 9. (5ème-4ème)





Cycle 4 (5ème/4ème/3ème)	NOM et Prénom :

CIV 10. (5ème-4ème)



A (- 4 , 3)

B (..... , ...)

C (..... , ...)

D (..... , ...)

E (..... , ...)

F (..... , ...)

/5

CIV 11. (4ème-3ème)

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

3	1	…	90	…	x
1	…	3	…	31	…

/5

CIV 12. (4ème-3ème)

a = 2,5 b = 4 c = 0,25

a + bc = 2,5 + (4 x 0,25) = 2,5 + 1 = 3,5

a – bc = ….. a(b+c) = …..

$a + \frac{b}{c}$ = ….. $\frac{a-b}{c}$ = ….. $\frac{bc-a}{ab}$ = …..

/5

CIV 13. (4ème-3ème)

-1,8 x (-0,2) = ….. -0,5 x 1,02 = ….. -10,2 x 0,05 = …..

1,8 x (-0,2) x 0,05 x(-10,2) = ….. 0,05 x (-10,2) x 10,2 x 0,05 = …..

/5

Cycle 4 (5ème/4ème/3ème)	NOM et Prénom :

CIV 14. (4ème-3ème)

$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$

$\frac{a}{b} + \frac{c}{d} = \frac{ad+cb}{bd}$

$\frac{5,2}{4} + \frac{0,8}{4} = \ldots\ldots$ $\frac{-3,3}{0,8} + \frac{2,1}{0,8} = \ldots\ldots$

$\frac{-10}{3} + \frac{7}{2} = \ldots\ldots$ $\frac{3}{2} - \frac{12,5}{5} = \ldots\ldots$ $\frac{-2,2}{0,9} - \frac{14}{9} = \ldots\ldots$

/5

CIV 15. (4ème-3ème)

$250 \times 10^{-1} = 0,25 \times 10^{2} = 25$

$35 \times 10^{-1} = \ldots\ldots$ $280 \times 10^{-2} = \ldots\ldots$

$16 \times 10^{-3} = \ldots\ldots$ $0,52 \times 10^{-2} = \ldots\ldots$ $0,01 \times 10^{3} = \ldots\ldots$

/5

CIV 16. (4ème-3ème)

$\frac{1}{10} = 10^{-1}$; $\frac{a^2}{a^5} = \frac{1}{a^3}$

$a^2 \times a^3 = a^5$; $(ab)^2 = a^2b^2$

$10^{-1} \times 10^{2} = \ldots\ldots$ $\frac{1}{10^3} = \ldots\ldots$

$(-1)^3 = \ldots\ldots$ $3 \times 3^2 = \ldots\ldots = \ldots\ldots$ $(-2)^2 \times \frac{2^2}{2^4} = \ldots\ldots$

/5

CIV 17. (4ème-3ème)

$5x + y - 2x - 3y = 3x - 2y$

$(a+b)(c+d) = ac + ad + bc + bd$

$X^3 + 2X = X(X^2 + 2)$

$-6 + 3a - b + 8 - 4a + 2b = \ldots\ldots\ldots$

$(3x + 1)(x + 2) = \ldots\ldots\ldots$ $2(A + 5)(A - 1) = \ldots\ldots\ldots$

$2A^2 - 4A = \ldots\ldots\ldots$ $6x + 3x^2 = \ldots\ldots\ldots$

/5

CIV 18. (4ème-3ème)

$2x - 6 = 0$ ⇨ $2x = 6$ ⇨ $x = 3$

$-3a + 1 < 4$ ⇨ $-3a < 3$ ⇨ $a > 1$

$-2a + 3 = 1$ ⇨ $a = \ldots\ldots$

$3x - 5 = 2x + 10$ ⇨ $x = \ldots\ldots$ $-5 = 3A + 10$ ⇨ $A = \ldots\ldots$

$5x > 10$ ⇨ $x > \ldots\ldots$ $12a - 7 < 13a - 8$ ⇨ $a \ldots\ldots\ldots$

/5

Cycle 4 (5ème/4ème/3ème) **NOM et Prénom :**

CIV 19. (4ème-3ème)

$(a+b)(a-b) = a^2 - b^2$

$(a+b)^2 = a^2 + 2ab + b^2$

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

$(x + 2)(x - 2) = \ldots\ldots\ldots$

$(3x + 1)^2 = \ldots\ldots\ldots$ $(2X + 3Y)^2 = \ldots\ldots\ldots$

$(x - 5)^2 = \ldots\ldots\ldots$ $(3X - 2Y)^2 = \ldots\ldots\ldots$

/5

CIV 20. (3ème-2de)

$(\sqrt{a})^2 = a$

$\sqrt{axb} = \sqrt{a} \times \sqrt{b}$

$x^2 = 9$ ⇨ $x = 3$; $x = -3$

$(\sqrt{5})^4 = \ldots..$ $3\sqrt{49} = \ldots..$

$\sqrt{2} \times \sqrt{8} = \sqrt{\ldots} = \ldots..$ $2\sqrt{2} \times \sqrt{50} = \ldots\ldots\ldots = \ldots..$

$x^2 = 0,25$ ⇨ $x = \ldots..$; $x = \ldots..$

/5

CIV 21. (3ème-2de)

$(x - 1)(2x + 4) = 0$

⇨ $x = 1$; $x = -2$

$$\begin{cases} x + 2y = 0 \\ x + y = 1 \end{cases}$$

⇨ $x = 2$; $y = -1$

$(x + 1)(x - 1) = 0$ ⇨ $x = \ldots..$; $x = \ldots..$

$(x - 5)(3x + 15) = 0$ ⇨ $x = \ldots..$; $x = \ldots..$

$(-2x + 9)(-5x + 3) = 0$ ⇨ $x = \ldots..$; $x = \ldots..$

$$\begin{cases} x + 5y = 10 \\ x + 2y = 4 \end{cases}$$ ⇨ $x = \ldots..$ $y = \ldots..$

$$\begin{cases} -3x + 2y = 5 \\ x + 4y = 3 \end{cases}$$ ⇨ $x = \ldots..$ $y = \ldots..$

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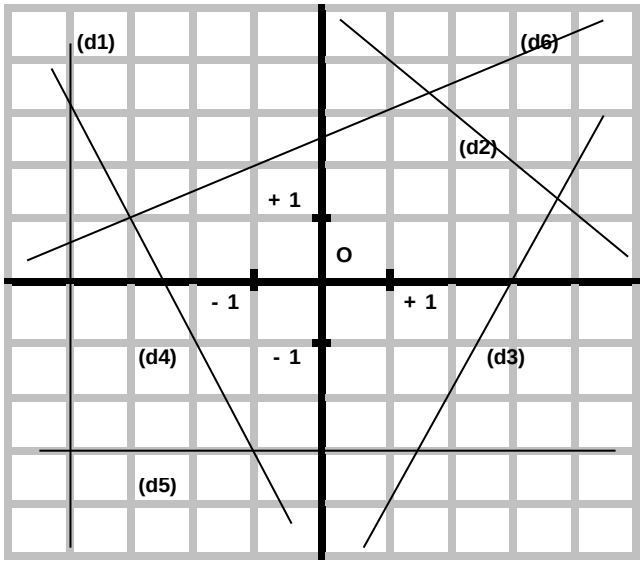
CIV 22. (3ème-2de)



$2y = x + 5$ ⇨ **(d6)**

$x = -4$ ⇨ …..

$y = -3$ ⇨ …..

$y = -x + 5$ ⇨ …..

$y = 2x - 6$ ⇨ …..

$y = -2x - 5$ ⇨ …..

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