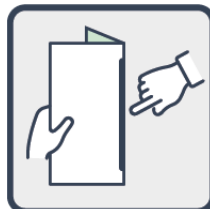


# Calcul Mental – cahier 1

## Addition et soustraction



1. Prends ton Niveau



2. Plie sur le trait pour cacher les solutions.



3. Ecris les réponses dans un cahier à côté, rien sur la feuille!



4. A la fin du temps accordé, compare tes réponses aux solutions.



5. Corrige tes erreurs et analyse-les.



6. Prêt pour le Niveau suivant ?  
Demande à passer un test.

**module I : nombres naturels** : Additions et soustractions de nombres naturels → 100

Pages

niv.1	Additions et soustractions → 10.	$4 + 3 = 7$	4
niv. 2	Additions et soustractions →20 (sans passage par la dizaine).	$8 + 7 = 15$	5
niv.3	Additions et soustractions →20 (avec passage par la dizaine).	$12 + 6 = 18$	6
niv. 4	Additions et soustractions →40 (avec passage par la dizaine).	$12 + 18 = 30$	7
niv.5	Additions et soustractions →100 (sans passage par la dizaine).	$35 + 14 = 49$	8
niv.6	Additions et soustractions →100 (avec passage par la dizaine).	$67 - 18 = 49$	9
niv.7	Compléments à 10 et à 100.	$8 + \dots = 10$	10
<b>module II : nombres naturels</b> : Additions et soustractions de nombres naturels > 100			
niv.1	Additions et soustractions de dizaines (D +/- D).	$80 - 30 = 50$	11
niv. 2	Additions et soustractions sans passage jusqu'à 1000.	$666 + 321 = 987$	12
niv.3	Compléments jusqu'à 1000.	$555 + 445 = 1000$	13
niv. 4	Additions et soustractions avec passage jusqu'à 1000.	$276 + 98 = 374$	14
niv.5	Compensation jusqu'à 1000.	$440 + 97 = 437 + 100 = 537$	15
niv.6	Compensation jusqu'à 10 000.	$1542 + 504 = 1546 + 500 = 2046$	16

**module III : nombres naturels** : Ajouter ou soustraire un nombre particulier

niv.1	Ajouter ou soustraire 10 ou 100.	$540 - 100 = 440$	17
niv. 2	Ajouter ou soustraire 9 ou 11.	$111 - 9 = 102$	18
niv.3	Ajouter ou soustraire 99 ou 101.	$578 - 99 = 479$	19

### *module IV : nombres naturels : techniques de calcul*

<i>niv.1</i>	Décomposer pour additionner ou soustraire.	$14 + 27 = 14 + 26 + 1 = 41$	20
<i>niv.2</i>	Compensation.	$82 + 19 = 81 + 20 + 101$	21
<i>niv.3</i>	Association (par associativité ou commutativité).	$21 + 34 + 29$	22
<i>niv.4</i>	Choix de la technique experte entre différente technique.	$346 + 24 + 35 = 405$ : Indique la technique experte	23
<i>niv.5</i>	La technique experte : développe.	$46 + 18 = \dots$ Indique et détaille la technique experte	24

### *module V : nombres décimaux :*

<i>niv.1</i>	Nombre à une décimale : additions, soustractions et compléments à l'unité.	$7,3 + 1 = 8,3$	25
<i>niv.2</i>	Nombre à deux décimales : additions, soustractions et compléments à l'unité.	$3,45 + 2,1 = 5,55$	26
<i>niv.3</i>	Additions et soustractions ; encadrement.	$37 + 3,377 = 40,377$	27
<i>niv.4</i>	Décomposer pour additionner ou soustraire jusqu'au 0,1.	$7,3 + 1,8 = 7,3 + 1,7 + 0,1 = 9,1$	28
<i>niv.5</i>	Additions et soustractions de 0,01 à 100.	$23,45 + 45,7 = 69,15$	29

### *module VI : nombres entiers*

<i>niv.1</i>	Additions et soustractions des entiers - 2 termes.	$5 - 7 = -2$	30
<i>niv.2</i>	Additions et soustractions (2 termes - avec successions de signes).	$(+45) - (-7) = 52$	31
<i>niv.3</i>	Additions et soustractions plus de 2 termes.	$-16 - (-17) - (-14) - 3 = 12$	33

# module I

niv.1 : Additions et soustractions → 10.

naturels → 10



	addition	soustraction	complément	mix		add	sous	com	mix	
1	5 + 3 = ...	10 - 1 = ...	5 + ... = 9	3 + 5 = ...		8	9	4	8	1
2	3 + 2 = ...	9 - 6 = ...	... + 4 = 10	2 + 3 = ...		5	3	6	5	2
3	7 + 1 = ...	8 - 4 = ...	8 = 5 + ...	5 + ... = 10		8	4	3	5	3
4	6 + 3 = ...	6 - 3 = ...	... + 4 = 8	7 - 2 = ...		9	3	4	5	4
5	2 + 1 = ...	5 - 4 = ...	3 + ... = 7	5 - 4 = ...		3	1	4	1	5
6	3 + 4 = ...	7 - 2 = ...	5 = ... + 0	... + 8 = 10		7	5	5	2	6
7	2 + 6 = ...	10 - 2 = ...	... + 1 = 7	4 + 5 = ...		8	8	6	9	7
8	4 + 3 = ...	10 - 7 = ...	8 + ... = 8	4 - 2 = ...		7	3	0	2	8
9	1 + 5 = ...	3 - 2 = ...	9 - ... = 5	... + 5 = 6		6	1	4	1	9
10	7 + 2 = ...	6 - 3 = ...	8 = 1 + ...	2 + 6 = ...		9	3	7	8	10
11	3 + 3 = ...	9 - 5 = ...	2 + ... = 6	9 - 5 = ...		6	4	4	4	11
12	4 + 5 = ...	7 - 4 = ...	6 + ... = 9	4 + ... = 6		9	3	3	2	12
13	2 + 7 = ...	7 - 3 = ...	9 = 3 + ...	6 + 1 = ...		9	4	6	7	13
14	6 + 1 = ...	8 - 4 = ...	6 = 6 + ...	5 - 4 = ...		7	4	0	1	14
15	5 + 3 = ...	5 - 4 = ...	1 + ... = 8	8 + ... = 9		8	1	7	1	15
16	3 + 1 = ...	2 - 1 = ...	6 + ... = 9	3 + 2 = ...		4	1	3	5	16
17	4 + 3 = ...	7 - 3 = ...	4 = 1 + ...	5 - 1 = ...		7	4	3	4	17
18	7 + 1 = ...	8 - 6 = ...	6 = 3 + ...	9 = 7 + ...		8	2	3	2	18
19	3 + 2 = ...	9 - 8 = ...	... + 3 = 8	3 + 5 = ...		5	1	5	8	19
20	4 + 5 = ...	8 - 2 = ...	... + 2 = 9	7 - 5 = ...		9	6	7	2	20
21	1 + 2 = ...	8 - 3 = ...	1 + ... = 4	3 + ... = 4		3	5	3	1	21
22	3 + 4 = ...	9 - 7 = ...	6 = 2 + ...	6 = 2 + ...		7	2	4	4	22
23	7 + 2 = ...	7 - 5 = ...	7 = 1 + ...	5 = 1 + ...		9	2	6	4	23
24	2 + 5 = ...	9 - 4 = ...	... + 5 = 8	... + 9 = 9		7	5	3	0	24
25	4 + 3 = ...	5 - 3 = ...	... + 2 = 6	... + 1 = 8		7	2	4	7	25
26	5 + 4 = ...	6 - 2 = ...	4 + ... = 9	2 + ... = 3		9	4	5	1	26
27	8 + 1 = ...	8 - 7 = ...	3 - ... = 1	3 - ... = 1		9	1	2	2	27
28	3 + 3 = ...	9 - 1 = ...	2 = 5 - ...	2 = 7 - ...		6	8	3	5	28
29	2 + 3 = ...	4 - 2 = ...	9 = 1 + ...	9 = 7 + ...		5	2	8	2	29
30	4 + 1 = ...	8 - 3 = ...	9 - ... = 6	4 + 5 = ...		5	5	3	9	30



niv.2 : Additions et soustractions → 20 (sans passage par la dizaine).



	addition	soustraction	complément	mix		add	sous	com	mix	
1	12 + 7 = ...	15 - 3 = ...	... + 15 = 17	16 = 11 + ...		19	12	2	5	1
2	6 + 3 = ...	15 - 4 = ...	18 = 17 + ...	3 + 6 = ...		9	11	1	9	2
3	11 + 8 = ...	6 - 2 = ...	19 + ... = 19	16 = 14 + ...		19	4	0	2	3
4	8 + 1 = ...	9 - 0 = ...	16 = 15 + ...	13 - 2 = ...		9	9	1	11	4
5	14 + 4 = ...	13 - 2 = ...	14 + ... = 19	12 - 1 = ...		18	11	5	11	5
6	11 + 5 = ...	8 - 6 = ...	13 - ... = 11	13 + 5 = ...		16	2	2	18	6
7	8 + 1 = ...	8 - 6 = ...	2 = 5 - ...	2 - 0 = ...		9	2	3	2	7
8	13 + 5 = ...	5 - 4 = ...	19 = 18 + ...	17 = ... + 15		18	1	1	2	8
9	15 + 2 = ...	15 - 3 = ...	19 - 6 = ...	3 + 6 = ...		17	12	13	9	9
10	5 + 4 = ...	7 - 7 = ...	11 + ... = 19	18 - 7 = ...		9	0	8	11	10
11	12 + 7 = ...	9 - 7 = ...	16 + ... = 18	11 + ... = 19		19	2	2	8	11
12	3 + 6 = ...	16 - 5 = ...	19 = 15 + ...	11 + 5 = ...		9	11	4	16	12
13	13 + 4 = ...	9 - 4 = ...	18 = 15 + ...	9 - 5 = ...		17	5	3	4	13
14	5 + 4 = ...	9 - 8 = ...	12 - ... = 10	17 = 13 + ...		9	1	2	4	14
15	11 + 8 = ...	8 - 4 = ...	10 + ... = 17	12 + 5 = ...		19	4	7	17	15
16	12 + 3 = ...	13 - 3 = ...	9 = 8 + ...	15 - 1 = ...		15	10	1	14	16
17	14 + 4 = ...	16 - 4 = ...	19 - ... = 15	9 = ... + 6		18	12	4	3	17
18	3 + 4 = ...	7 - 4 = ...	17 + ... = 19	5 + 3 = ...		7	3	2	8	18
19	2 + 7 = ...	5 - 2 = ...	16 = 13 + ...	14 - 4 = ...		9	3	3	10	19
20	12 + 5 = ...	17 - 2 = ...	18 - ... = 12	... + 9 = 9		17	6	8	0	20
21	12 + 7 = ...	9 - 5 = ...	19 = 18 + ...	7 = 2 + ...		19	4	1	5	21
22	1 + 7 = ...	14 - 3 = ...	15 - ... = 14	19 - ... = 14		8	11	1	5	22
23	16 + 2 = ...	17 - 7 = ...	11 + ... = 19	12 + ... = 17		18	10	8	5	23
24	10 + 8 = ...	15 - 2 = ...	11 = 10 + ...	16 = 10 + ...		18	13	1	6	24
25	8 + 1 = ...	9 - 2 = ...	16 - ... = 14	15 - ... = 14		9	7	2	1	25
26	14 + 5 = ...	3 - 3 = ...	17 = 11 + ...	13 = 12 + ...		19	0	6	1	26
27	13 + 5 = ...	17 - 3 = ...	18 - ... = 15	16 - ... = 12		18	14	3	4	27
28	10 + 1 = ...	5 - 4 = ...	12 + ... = 19	10 + ... = 16		11	1	7	6	28
29	13 + 6 = ...	13 - 2 = ...	15 = 11 + ...	12 = 10 + ...		19	11	4	2	29
30	11 + 4 = ...	11 - 1 = ...	16 - ... = 11	14 - ... = 10		15	10	5	4	30



niv.3 : Additions et soustractions →20 (avec passage par la dizaine).



	addition	soustraction	complément	mix		add	sous	com	mix	
1	$9 + 6 = \dots$	$20 - 11 = \dots$	$\dots + 3 = 20$	$14 + \dots = 20$		15	9	17	6	1
2	$6 + 6 = \dots$	$15 - 6 = \dots$	$20 = 7 + \dots$	$9 + 7 = \dots$		12	9	13	16	2
3	$3 + 8 = \dots$	$16 - 8 = \dots$	$9 + \dots = 20$	$20 = 7 + \dots$		11	8	11	13	3
4	$8 + 7 = \dots$	$19 - 18 = \dots$	$20 = 15 + \dots$	$13 - 4 = \dots$		15	1	5	9	4
5	$2 + 9 = \dots$	$13 - 6 = \dots$	$14 + \dots = 20$	$20 - 13 = \dots$		11	7	6	7	5
6	$5 + 8 = \dots$	$20 - 12 = \dots$	$\dots + 20 = 20$	$7 + 8 = \dots$		13	8	0	15	6
7	$3 + 9 = \dots$	$14 - 7 = \dots$	$20 = 18 + \dots$	$14 - 6 = \dots$		12	7	2	8	7
8	$7 + 7 = \dots$	$11 - 5 = \dots$	$20 = 6 + \dots$	$20 = 8 + \dots$		14	6	14	12	8
9	$9 + 7 = \dots$	$15 - 8 = \dots$	$5 + \dots = 20$	$8 + 4 = \dots$		16	7	15	12	9
10	$8 + 6 = \dots$	$12 - 7 = \dots$	$11 + \dots = 20$	$15 - 9 = \dots$		14	5	9	6	10
11	$7 + 5 = \dots$	$17 - 8 = \dots$	$20 = 12 + \dots$	$6 + \dots = 20$		12	9	8	14	11
12	$5 + 5 = \dots$	$14 - 9 = \dots$	$20 = 9 + \dots$	$5 + 9 = \dots$		10	5	11	14	12
13	$9 + 8 = \dots$	$13 - 4 = \dots$	$13 + \dots = 20$	$12 - 5 = \dots$		17	9	7	7	13
14	$6 + 9 = \dots$	$11 - 2 = \dots$	$1 + \dots = 20$	$3 + \dots = 20$		15	9	19	17	14
15	$6 + 5 = \dots$	$16 - 9 = \dots$	$20 = 10 + \dots$	$6 + 5 = \dots$		11	7	10	11	15
16	$5 + 9 = \dots$	$11 - 6 = \dots$	$20 = 3 + \dots$	$14 - 9 = \dots$		14	5	17	5	16
17	$4 + 6 = \dots$	$17 - 9 = \dots$	$11 + \dots = 20$	$20 = 5 + \dots$		10	8	9	15	17
18	$3 + 8 = \dots$	$15 - 6 = \dots$	$14 + \dots = 20$	$8 + 3 = \dots$		11	9	6	11	18
19	$7 + 8 = \dots$	$12 - 4 = \dots$	$20 = 12 + \dots$	$13 - 6 = \dots$		15	8	8	7	19
20	$9 + 9 = \dots$	$13 - 8 = \dots$	$20 = 19 + \dots$	$20 = 7 + \dots$		18	5	1	13	20

# module I

niv.4 : Additions et soustractions → 40 (avec passage par la dizaine).

naturels → 40



	addition	soustraction	complément	mix		add	sous	com	mix	
1	$17 + 5 = \dots$	$23 - 15 = \dots$	$16 + \dots = 33$	$23 - \dots = 5$		22	8	17	18	1
2	$12 + 4 = \dots$	$26 - 8 = \dots$	$21 - \dots = 13$	$8 + 5 = \dots$		16	18	8	13	2
3	$19 + 16 = \dots$	$20 - 16 = \dots$	$13 - \dots = 9$	$17 - \dots = 7$		35	4	4	10	3
4	$7 + 18 = \dots$	$13 - 4 = \dots$	$33 - \dots = 16$	$20 - 10 = \dots$		25	9	17	10	4
5	$13 + 17 = \dots$	$22 - 10 = \dots$	$3 + \dots = 12$	$15 - \dots = 9$		30	12	9	6	5
6	$15 + 14 = \dots$	$34 - 14 = \dots$	$31 - \dots = 13$	$9 + 6 = \dots$		29	20	18	15	6
7	$19 + 11 = \dots$	$32 - 13 = \dots$	$20 - \dots = 3$	$2 + \dots = 19$		30	19	17	17	7
8	$6 + 7 = \dots$	$21 - 15 = \dots$	$16 + \dots = 36$	$13 + \dots = 30$		13	6	20	17	8
9	$15 + 20 = \dots$	$30 - 18 = \dots$	$19 + \dots = 30$	$3 + 2 = \dots$		35	12	11	5	9
10	$16 + 2 = \dots$	$37 - 27 = \dots$	$5 + \dots = 23$	$34 - \dots = 17$		18	10	18	17	10
11	$19 + 5 = \dots$	$21 - 3 = \dots$	$16 - \dots = 3$	$12 + 7 = \dots$		24	18	13	19	11
12	$9 + 16 = \dots$	$29 - 17 = \dots$	$21 - \dots = 9$	$14 + 20 = \dots$		25	12	12	34	12
13	$12 + 6 = \dots$	$10 - 4 = \dots$	$9 + \dots = 12$	$2 + \dots = 8$		18	6	3	6	13
14	$8 + 3 = \dots$	$20 - 5 = \dots$	$32 - \dots = 19$	$\dots - 13 = 13$		11	15	13	26	14
15	$13 + 6 = \dots$	$12 - 5 = \dots$	$15 + \dots = 34$	$9 + \dots = 23$		19	7	19	14	15
16	$5 + 15 = \dots$	$7 - 2 = \dots$	$22 - \dots = 17$	$22 - 4 = \dots$		20	5	5	18	16
17	$10 + 8 = \dots$	$30 - 14 = \dots$	$8 + \dots = 15$	$19 + 2 = \dots$		18	16	7	21	17
18	$20 + 2 = \dots$	$18 - 10 = \dots$	$22 - \dots = 18$	$7 + \dots = 20$		22	8	4	13	18
19	$8 + 11 = \dots$	$32 - 17 = \dots$	$13 + \dots = 29$	$12 - 4 = \dots$		19	15	16	8	19
20	$10 + 5 = \dots$	$24 - 8 = \dots$	$16 + \dots = 21$	$17 - 13 = \dots$		15	16	5	4	20

# module I

niv.5 : Additions et soustractions → 100 (sans passage par la dizaine).

naturels → 100



	addition	soustraction	complément	mix		add	sous	com	mix	
1	$85 + 14 = \dots$	$100 - 50 = \dots$	$20 + \dots = 100$	$35 + 43 = \dots$		99	50	80	78	1
2	$71 + 8 = \dots$	$59 - 39 = \dots$	$100 - \dots = 70$	$82 + 14 = \dots$		79	20	30	96	2
3	$23 + 6 = \dots$	$98 - 44 = \dots$	$30 + \dots = 100$	$100 = 35 + \dots$		29	54	70	65	3
4	$35 + 43 = \dots$	$66 - 23 = \dots$	$80 + \dots = 100$	$40 + \dots = 100$		78	43	20	60	4
5	$23 + 72 = \dots$	$55 - 14 = \dots$	$90 + \dots = 100$	$98 - 44 = \dots$		95	41	10	54	5
6	$17 + 81 = \dots$	$47 - 22 = \dots$	$100 = 50 + \dots$	$47 - 22 = \dots$		98	25	50	25	6
7	$32 + 44 = \dots$	$88 - 66 = \dots$	$100 - \dots = 80$	$42 + 26 = \dots$		76	22	20	68	7
8	$62 + 22 = \dots$	$99 - 28 = \dots$	$100 - \dots = 90$	$88 - 35 = \dots$		84	71	10	53	8
9	$48 + 11 = \dots$	$57 - 34 = \dots$	$100 = 60 + \dots$	$100 - \dots = 65$		59	23	40	35	9
10	$54 + 34 = \dots$	$63 - 42 = \dots$	$100 = 10 + \dots$	$54 + 12 = \dots$		88	21	90	66	10
11	$23 + 25 = \dots$	$72 - 50 = \dots$	$75 + \dots = 100$	$47 - 23 = \dots$		48	22	25	24	11
12	$84 + 12 = \dots$	$47 - 35 = \dots$	$100 - \dots = 15$	$100 - \dots = 45$		96	12	85	55	12
13	$14 + 52 = \dots$	$38 - 14 = \dots$	$100 = 55 + \dots$	$65 + 13 = \dots$		66	24	45	78	13
14	$34 + 21 = \dots$	$27 - 15 = \dots$	$100 = 35 + \dots$	$54 - 33 = \dots$		55	12	65	21	14
15	$46 + 23 = \dots$	$17 - 12 = \dots$	$100 - \dots = 65$	$\dots + 25 = 100$		69	5	35	75	15
16	$81 + 14 = \dots$	$84 - 22 = \dots$	$100 - \dots = 25$	$82 + 14 = \dots$		95	62	75	96	16
17	$22 + 14 = \dots$	$97 - 51 = \dots$	$100 = 5 + \dots$	$27 - 12 = \dots$		36	46	95	15	17
18	$15 + 64 = \dots$	$38 - 26 = \dots$	$100 = \dots + 85$	$100 = 15 + \dots$		79	12	15	85	18
19	$23 + 75 = \dots$	$83 - 62 = \dots$	$100 - \dots = 35$	$12 + 26 = \dots$		98	21	65	38	19
20	$25 + 61 = \dots$	$76 - 54 = \dots$	$100 - \dots = 55$	$38 - 17 = \dots$		86	22	45	21	20



# module I

niv.6 : Additions et soustractions → 100 (avec passage par la dizaine).

naturels → 100



			addition		soustraction		
	addition	soustraction	indice	solutio n	indice	solutio n	
1	$18 + 64 = \dots$	$43 - 16 = \dots$	$(18+60) + 2 + 2 =$	82	$43 - 10 - 3 - 3 =$	27	1
2	$37 + 68 = \dots$	$97 - 38 = \dots$	$(37+ 60) + 3 +5 =$	105	$97- 30 -7 -1 =$	59	2
3	$69 + 14 = \dots$	$76 - 39 = \dots$	$(69 + 10) + 1 + 3 =$	83	$76 - 30 - 6 - 3 =$	37	3
4	$22 + 74 = \dots$	$91 - 45 = \dots$	$(22 + 70) + 4 =$	96	$91 - 40 - 1 - 4 =$	46	4
5	$27 + 65 = \dots$	$30 - 11 = \dots$	$(27 + 60) + 3 + 2 =$	92	$30 - 10 - 1 =$	19	5
6	$64 + 27 = \dots$	$34 - 9 = \dots$	$(64 + 20) + 6 + 1 =$	91	$34 - 4 - 5 =$	25	6
7	$14 + 67 = \dots$	$56 - 19 = \dots$	$(14+ 60) + 6 + 1 =$	81	$56 - 10 - 6 - 3 =$	37	7
8	$33 + 38 = \dots$	$87 - 11 = \dots$	$(33 + 30) + 7 + 1 =$	71	$87 - 10 -1 =$	76	8
9	$56 + 18 = \dots$	$23 - 21 = \dots$	$(56 + 10) + 4 + 4 =$	74	$23 - 20 -1 =$	2	9
10	$48 + 35 = \dots$	$62 - 35 = \dots$	$(48 + 30) + 2 + 3 =$	83	$62 - 30 - 2 - 3 =$	27	10
11	$56 + 35 = \dots$	$44 - 28 = \dots$	$(56 + 30) + 4 + 1 =$	91	$44 - 20 - 4 - 4 =$	16	11
12	$67 + 24 = \dots$	$36 - 17 = \dots$	$(67 + 20) + 3 + 1 =$	91	$36 - 10 - 6 -1 =$	19	12
13	$56 + 16 = \dots$	$44 - 25 = \dots$	$56 + 10 + 4 + 2 =$	72	$44 - 20 - 4 - 1 =$	19	13
14	$27 + 35 = \dots$	$35 - 18 = \dots$	$27 + 30 + 3 + 2 =$	62	$35 - 10 - 5 - 3 =$	17	14
15	$78 + 14 = \dots$	$54 - 5 = \dots$	$78 + 10 + 2 + 2 =$	92	$54 - 4 -1 =$	49	15
16	$36 + 48 = \dots$	$97 - 18 = \dots$	$36 + 40 + 4 + 4 =$	84	$97 - 10 - 7 - 1 =$	79	16
17	$43 + 48 = \dots$	$34 - 16 = \dots$	$43 + 40 + 7 + 1 =$	91	$34 - 10 - 4 - 2 =$	18	17
18	$18 + 27 = \dots$	$84 - 7 = \dots$	$18 + 20 + 2 + 5 =$	45	$84 - 4 - 3 =$	77	18
19	$45 + 37 = \dots$	$55 - 37 = \dots$	$45 + 30 + 5 + 2 =$	82	$55 - 30 - 5 - 2 =$	18	19
20	$84 + 8 = \dots$	$57 - 15 = \dots$	$84 + 6 + 2 =$	92	$57 - 15 =$	42	20

# module I

naturels à 10 et à 100



niv.7 : Compléments à 10 et à 100.



	à 10	à 100 (par 10)	à 100 (par 5)	à 100 (par 1)	sol 1	sol 2	sol 3	sol 4	
1	$5 + \dots = 10$	$20 + \dots = 100$	$75 + \dots = 100$	$32 + \dots = 100$	5	80	25	68	1
2	$\dots + 4 = 10$	$100 - \dots = 70$	$100 - \dots = 15$	$64 + \dots = 100$	6	30	85	36	2
3	$10 = 5 + \dots$	$30 + \dots = 100$	$100 = 55 + \dots$	$100 = 18 + \dots$	5	70	45	82	3
4	$\dots + 8 = 10$	$80 + \dots = 100$	$100 = 35 + \dots$	$100 = 56 + \dots$	2	20	65	44	4
5	$3 + \dots = 10$	$90 + \dots = 100$	$100 - \dots = 65$	$75 + \dots = 100$	7	10	35	25	5
6	$10 = \dots + 2$	$100 = 50 + \dots$	$100 - \dots = 25$	$100 - \dots = 87$	8	50	75	13	6
7	$\dots + 7 = 10$	$100 - \dots = 80$	$100 = 5 + \dots$	$100 - \dots = 74$	3	20	95	26	7
8	$4 + \dots = 10$	$100 - \dots = 90$	$100 = \dots + 85$	$17 + \dots = 100$	6	10	15	83	8
9	$10 - \dots = 5$	$100 = 60 + \dots$	$100 - \dots = 35$	$53 + \dots = 100$	5	40	65	47	9
10	$10 = 1 + \dots$	$100 = 10 + \dots$	$100 - \dots = 55$	$100 - \dots = 22$	9	90	45	78	10
11	$2 + \dots = 10$	$30 + \dots = 100$	$85 + \dots = 100$	$100 - \dots = 47$	8	70	15	53	11
12	$7 + \dots = 10$	$100 - \dots = 80$	$100 - \dots = 25$	$100 = \dots + 34$	3	20	75	66	12
13	$10 = 5 + \dots$	$40 + \dots = 100$	$100 = 65 + \dots$	$100 = \dots + 82$	5	60	35	18	13
14	$10 = 6 + \dots$	$90 + \dots = 100$	$100 = 45 + \dots$	$100 - \dots = 27$	4	10	55	73	14
15	$9 + \dots = 10$	$100 + \dots = 100$	$100 - \dots = 75$	$100 - \dots = 33$	1	0	25	67	15
16	$8 + \dots = 10$	$100 = 60 + \dots$	$100 - \dots = 85$	$100 = 88 + \dots$	2	40	15	12	16
17	$10 = 4 + \dots$	$100 - \dots = 90$	$100 = 15 + \dots$	$100 = 17 + \dots$	6	10	85	83	17
18	$10 = 3 + \dots$	$100 - \dots = 100$	$100 = \dots + 95$	$57 + \dots = 100$	7	0	5	43	18
19	$\dots + 5 = 10$	$100 = 70 + \dots$	$100 - \dots = 45$	$44 + \dots = 100$	5	30	55	56	19
20	$\dots + 2 = 10$	$100 = 20 + \dots$	$100 - \dots = 65$	$100 - \dots = 32$	8	80	35	68	20



niv.1 : Additions et soustractions de dizaines (D +/- D).



	addition	soustraction	mix		add	sous	mix	
1	$80 + 70 = \dots$	$160 - 40 = \dots$	$140 - 30 = \dots$		150	120	110	1
2	$50 + 50 = \dots$	$140 - 100 = \dots$	$30 + 120 = \dots$		100	40	150	2
3	$90 + 20 = \dots$	$140 - 40 = \dots$	$180 - \dots = 110$		110	100	70	3
4	$130 + 40 = \dots$	$130 - 120 = \dots$	$70 + 130 = \dots$		170	10	200	4
5	$50 + 50 = \dots$	$150 - 110 = \dots$	$140 - 120 = \dots$		100	40	20	5
6	$40 + 40 = \dots$	$190 - 110 = \dots$	$\dots - 60 = 110$		80	80	170	6
7	$170 + 70 = \dots$	$130 - 70 = \dots$	$130 - 80 = \dots$		240	60	50	7
8	$10 + 80 = \dots$	$160 - 20 = \dots$	$50 + 60 = \dots$		90	140	110	8
9	$170 + 80 = \dots$	$150 - 70 = \dots$	$\dots + 150 = 220$		250	80	70	9
10	$50 + 30 = \dots$	$130 - 40 = \dots$	$120 + 110 = \dots$		80	90	230	10
11	$190 + 30 = \dots$	$190 - 50 = \dots$	$150 - 90 = \dots$		220	140	60	11
12	$190 + 110 = \dots$	$150 - 40 = \dots$	$120 - \dots = 70$		300	110	50	12
13	$120 + 70 = \dots$	$170 - 100 = \dots$	$180 - 90 = \dots$		190	70	90	13
14	$60 + 120 = \dots$	$150 - 80 = \dots$	$170 + 120 = \dots$		180	70	290	14
15	$80 + 90 = \dots$	$130 - 110 = \dots$	$60 + \dots = 200$		170	20	140	15
16	$180 + 20 = \dots$	$160 - 60 = \dots$	$90 + 50 = \dots$		200	100	140	16
17	$30 + 50 = \dots$	$140 - 50 = \dots$	$130 - 90 = \dots$		80	90	40	17
18	$10 + 90 = \dots$	$170 - 60 = \dots$	$190 + \dots = 310$		100	110	120	18
19	$150 + 40 = \dots$	$130 - 100 = \dots$	$180 + 30 = \dots$		190	30	210	19
20	$70 + 90 = \dots$	$170 - 50 = \dots$	$180 - 50 = \dots$		160	120	130	20



niv.2 : Additions et soustractions sans passage jusqu'à 1000.



	addition	soustraction	mix	add	sou	mix	
1	$830 + 100 = \dots$	$353 - 120 = \dots$	$540 - 330 = \dots$	930	233	210	1
2	$135 + 673 = \dots$	$268 - 122 = \dots$	$34 + 123 = \dots$	808	146	157	2
3	$820 + 140 = \dots$	$1000 - 500 = \dots$	$585 - \dots = 112$	960	500	473	3
4	$715 + 80 = \dots$	$892 - 660 = \dots$	$370 + 133 = \dots$	795	232	503	4
5	$235 + 460 = \dots$	$987 - 444 = \dots$	$640 - 120 = \dots$	695	543	520	5
6	$352 + 437 = \dots$	$663 - 231 = \dots$	$\dots - 60 = 415$	789	432	475	6
7	$230 + 720 = \dots$	$550 - 140 = \dots$	$765 - 524 = \dots$	950	410	241	7
8	$177 + 811 = \dots$	$475 - 221 = \dots$	$340 + 605 = \dots$	988	254	945	8
9	$550 + 220 = \dots$	$286 - 131 = \dots$	$\dots + 250 = 570$	770	155	320	9
10	$251 + 714 = \dots$	$618 - 455 = \dots$	$520 + 152 = \dots$	965	163	672	10
11	$680 + 310 = \dots$	$328 - 241 = \dots$	$551 - 20 = \dots$	990	87	531	11
12	$322 + 181 = \dots$	$727 - 343 = \dots$	$120 - \dots = 70$	503	384	50	12
13	$730 + 250 = \dots$	$886 - 655 = \dots$	$885 - 443 = \dots$	980	231	442	13
14	$432 + 547 = \dots$	$925 - 553 = \dots$	$170 + 120 = \dots$	979	372	290	14
15	$180 + 450 = \dots$	$424 - 310 = \dots$	$160 + \dots = 888$	630	114	728	15
16	$531 + 210 = \dots$	$564 - 431 = \dots$	$490 + 508 = \dots$	741	133	998	16
17	$310 + 272 = \dots$	$423 - 242 = \dots$	$797 - 523 = \dots$	582	181	274	17
18	$223 + 190 = \dots$	$632 - 480 = \dots$	$140 + \dots = 370$	413	152	230	18
19	$440 + 174 = \dots$	$341 - 240 = \dots$	$183 + 430 = \dots$	614	101	613	19
20	$645 + 190 = \dots$	$575 - 183 = \dots$	$185 - 50 = \dots$	835	392	135	20



niv.3 : Compléments jusqu'à 1000.



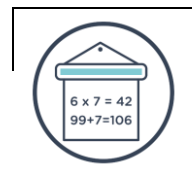
	par 10	par unité	complément jusqu'à 1000	sol 1	sol 2	sol 3	
1	$120 + \dots = 1000$	$193 + \dots = 1000$	390 pour aller à 400 : ...	820	807	10	1
2	$1000 - \dots = 630$	$1000 = 341 + \dots$	519 pour aller à 600 : ...	370	659	81	2
3	$190 + \dots = 1000$	$626 + \dots = 1000$	986 pour aller à 1000 : ...	810	374	14	3
4	$1000 = 340 + \dots$	$892 + \dots = 1000$	636 pour aller à 700 : ...	660	108	64	4
5	$460 + \dots = 1000$	$961 + \dots = 1000$	994 pour aller à 1000 : ...	540	39	6	5
6	$830 + \dots = 1000$	$1000 = 229 + \dots$	858 pour aller à 900 : ...	110	771	42	6
7	$990 + \dots = 1000$	$1000 = 347 + \dots$	677 pour aller à 700 : ...	10	653	23	7
8	$1000 = 550 + \dots$	$1000 - \dots = 874$	235 pour aller à 300 : ...	450	126	65	8
9	$1000 - \dots = 740$	$1000 - \dots = 378$	955 pour aller à 1000 : ...	260	622	45	9
10	$240 + \dots = 1000$	$125 + \dots = 1000$	330 pour aller à 400 : ...	760	875	70	10
11	$670 + \dots = 1000$	$1000 = 495 + \dots$	529 pour aller à 600 : ...	330	505	71	11
12	$1000 = 570 + \dots$	$1000 = 165 + \dots$	969 pour aller à 1000 : ...	430	835	31	12
13	$1000 = 380 + \dots$	$1000 = \dots + 233$	141 pour aller à 200 : ...	620	767	59	13
14	$1000 - \dots = 810$	$685 + \dots = 1000$	748 pour aller à 800 : ...	190	315	52	14
15	$1000 - \dots = 750$	$725 + \dots = 1000$	425 pour aller à 500 : ...	250	275	75	15
16	$640 + \dots = 1000$	$1000 = 555 + \dots$	904 pour aller à 1000 : ...	360	445	96	16
17	$270 + \dots = 1000$	$324 + \dots = 1000$	803 pour aller à 900 : ...	730	676	97	17
18	$1000 = 360 + \dots$	$712 + \dots = 1000$	354 pour aller à 400 : ...	640	288	46	18
19	$1000 = \dots + 550$	$1000 = \dots + 651$	994 pour aller à 1000 : ...	450	349	6	19
20	$1000 - \dots = 360$	$900 = 625 + \dots$	155 pour aller à 200 : ...	640	275	45	20



niv.4 : Additions et soustractions avec passage jusqu'à 1000.



	addition	soustraction	complément	add	sou	com	
1	$325 + 575 = \dots$	$460 - 95 = \dots$	$435 + \dots = 562$	900	365	127	1
2	$435 + 270 = \dots$	$215 - 130 = \dots$	$725 + \dots = 994$	705	85	269	2
3	$605 + 215 = \dots$	$650 - 165 = \dots$	$1000 = 555 + \dots$	820	485	445	3
4	$195 + 120 = \dots$	$735 - 325 = \dots$	$902 = 625 + \dots$	315	410	277	4
5	$235 + 345 = \dots$	$350 - 125 = \dots$	$535 + \dots = 801$	580	225	266	5
6	$99 + 840 = \dots$	$998 - 99 = \dots$	$990 + \dots = 1000$	800	899	10	6
7	$679 + 212 = \dots$	$164 - 56 = \dots$	$910 = 550 + \dots$	960	108	360	7
8	$768 + 99 = \dots$	$783 - 99 = \dots$	$1000 - \dots = 740$	790	684	260	8
9	$345 + 116 = \dots$	$496 - 242 = \dots$	$193 + \dots = 1000$	461	254	807	9
10	$546 + 101 = \dots$	$546 - 101 = \dots$	$500 = 341 + \dots$	780	445	159	10
11	$345 + 99 = \dots$	$345 - 101 = \dots$	$626 + \dots = 955$	950	244	329	11
12	$375 + 150 = \dots$	$362 - 50 = \dots$	$892 + \dots = 900$	525	312	8	12
13	$623 + 169 = \dots$	$437 - 50 = \dots$	$161 + \dots = 310$	792	387	149	13
14	$379 + 118 = \dots$	$239 - 138 = \dots$	$820 = 229 + \dots$	497	101	591	14
15	$134 + 128 = \dots$	$897 - 350 = \dots$	$506 = 347 + \dots$	262	47	159	15
16	$215 + 318 = \dots$	$654 - 234 = \dots$	$902 - \dots = 874$	533	420	28	16
17	$252 + 139 = \dots$	$894 - 365 = \dots$	$834 - \dots = 378$	391	529	456	17
18	$345 + 135 = \dots$	$798 - 354 = \dots$	$324 + \dots = 1000$	480	444	676	18
19	$309 + 101 = \dots$	$565 - 237 = \dots$	$712 + \dots = 801$	410	328	89	19
20	$245 + 136 = \dots$	$652 - 50 = \dots$	$234 + \dots = 832$	381	602	598	20



			addition		soustraction		
	addition	soustraction	indice	solution	indice	solution	
1	$305 + 145 = \dots$	$710 - 110 = \dots$	$300 + 150$	450	$700 - 100$	600	1
2	$351 + 99 = \dots$	$435 - 305 = \dots$	$350 + 100$	450	$430 - 300$	130	2
3	$670 + 99 = \dots$	$349 - 219 = \dots$	$669 + 100$	769	$350 - 220$	130	3
4	$526 + 144 = \dots$	$1399 - 654 = \dots$	$530 + 140$	670	$1400 - 655$	745	4
5	$197 + 563 = \dots$	$456 - 99 = \dots$	$200 + 560$	760	$457 - 100$	357	5
6	$468 + 512 = \dots$	$217 - 199 = \dots$	$470 + 510$	980	$218 - 200$	18	6
7	$713 + 199 = \dots$	$520 - 108 = \dots$	$712 + 200$	912	$512 - 100$	412	7
8	$369 + 101 = \dots$	$315 - 145 = \dots$	$370 + 100$	470	$320 - 150$	170	8
9	$418 + 127 = \dots$	$967 - 599 = \dots$	$420 + 125$	545	$968 - 600$	368	9
10	$133 + 199 = \dots$	$240 - 137 = \dots$	$132 + 200$	332	$243 - 140$	103	10
11	$217 + 313 = \dots$	$499 - 148 = \dots$	$220 + 310$	530	$500 - 149$	351	11
12	$166 + 314 = \dots$	$234 - 101 = \dots$	$170 + 310$	480	$233 - 100$	133	12
13	$327 + 101 = \dots$	$679 - 501 = \dots$	$328 + 100$	428	$678 - 500$	178	13
14	$584 + 101 = \dots$	$354 - 299 = \dots$	$585 + 100$	685	$355 - 300$	55	14
15	$113 + 99 = \dots$	$767 - 499 = \dots$	$112 + 100$	212	$768 - 500$	268	15
16	$424 + 206 = \dots$	$416 - 201 = \dots$	$430 + 200$	630	$415 - 200$	215	16
17	$708 + 112 = \dots$	$560 - 257 = \dots$	$700 + 120$	820	$563 - 260$	303	17
18	$237 + 301 = \dots$	$980 - 434 = \dots$	$238 + 300$	538	$986 - 440$	546	18
19	$645 + 99 = \dots$	$574 - 301 = \dots$	$644 + 100$	744	$573 - 300$	273	19
20	$308 + 202 = \dots$	$515 - 299 = \dots$	$310 + 200$	510	$516 - 300$	216	20

# module II

compensation → 10000



niv.6 : Compensation jusqu'à 10 000.



			addition		soustraction		
	addition	soustraction	indice	solution	indice	solution	
1	298 + 147 = ...	6779 - 999 = ...	300 + 145	445	6780 - 1000	5780	1
2	345 + 999 = ...	5404 - 2004 = ...	344 + 1000	1344	5400 - 2000	3400	2
3	670 + 999 = ...	1736 - 299 = ...	669 + 1000	1669	1735 - 300	1435	3
4	546 + 954 = ...	2399 - 654 = ...	550 + 950	1500	2400 - 653	1747	4
5	1197 + 563 = ...	3456 - 1999 = ...	1200 + 560	1760	3457 - 2000	1457	5
6	8262 + 248 = ...	9788 - 1201 = ...	8260 + 240	8500	9787 - 1200	8587	6
7	3654 + 346 = ...	7952 - 4899 = ...	3650 + 350	4000	7953 - 4900	3053	7
8	388 + 1132 = ...	8950 - 4206 = ...	390 + 1130	1520	8944 - 4200	4744	8
9	1999 + 256 = ...	5487 - 3999 = ...	2000 + 255	2255	5488 - 4000	1488	9
10	974 + 116 = ...	3544 - 799 = ...	980 + 110	1090	3545 - 800	2745	10
11	399 + 1842 = ...	4450 - 367 = ...	400 + 1841	2241	4453 - 370	4083	11
12	597 + 233 = ...	2180 - 438 = ...	600 + 230	830	2182 - 440	1742	12
13	1805 + 999 = ...	6874 - 2001 = ...	1804 + 1000	2804	6873 - 2000	4873	13
14	2542 + 188 = ...	5408 - 3401 = ...	2540 + 190	2730	5407 - 3400	2007	14
15	384 + 1216 = ...	2405 - 1999 = ...	390 + 1210	1600	2406 - 2000	406	15
16	6843 + 699 = ...	3400 - 3141 = ...	6842 + 700	7542	3399 - 3140	259	16
17	762 + 1238 = ...	8406 - 4399 = ...	760 + 1240	2000	8407 - 4400	4007	17
18	487 + 4033 = ...	6470 - 701 = ...	490 + 4030	4520	5469 - 700	5769	18
19	1794 + 586 = ...	4020 - 2006 = ...	1800 + 580	2380	4014 - 2000	2014	19
20	958 + 477 = ...	3547 - 1999 = ...	960 + 475	1435	3548 - 2000	1548	20





niv.1 : Ajouter ou soustraire 10 ou 100.



	10	10	100	100	sol 1	sol 2	sol 3	sol 4	
1	$52 + 10 = \dots$	$183 - 10 = \dots$	$538 + 100 = \dots$	$440 - 100 = \dots$	62	173	638	340	1
2	$145 + 10 = \dots$	$88 - 10 = \dots$	$974 + 100 = \dots$	$814 - 100 = \dots$	155	78	1.074	714	2
3	$154 + 10 = \dots$	$107 - 10 = \dots$	$708 + 100 = \dots$	$839 - 100 = \dots$	164	97	808	739	3
4	$65 + 10 = \dots$	$140 - 10 = \dots$	$97 + 100 = \dots$	$697 - 100 = \dots$	75	130	197	597	4
5	$201 + 10 = \dots$	$217 - 10 = \dots$	$659 + 100 = \dots$	$542 - 100 = \dots$	211	207	759	442	5
6	$227 + 10 = \dots$	$136 - 10 = \dots$	$807 + 100 = \dots$	$551 - 100 = \dots$	237	126	907	451	6
7	$230 + 10 = \dots$	$111 - 10 = \dots$	$922 + 100 = \dots$	$185 - 100 = \dots$	240	101	1.022	85	7
8	$192 + 10 = \dots$	$53 - 10 = \dots$	$406 + 100 = \dots$	$738 - 100 = \dots$	202	43	506	638	8
9	$113 + 10 = \dots$	$226 - 10 = \dots$	$302 + 100 = \dots$	$436 - 100 = \dots$	123	216	402	336	9
10	$102 + 10 = \dots$	$120 - 10 = \dots$	$105 + 100 = \dots$	$852 - 100 = \dots$	112	110	205	752	10
11	$155 + 10 = \dots$	$80 - 10 = \dots$	$904 + 100 = \dots$	$266 - 100 = \dots$	165	70	1.004	166	11
12	$178 + 10 = \dots$	$156 - 10 = \dots$	$591 + 100 = \dots$	$563 - 100 = \dots$	188	146	691	463	12
13	$140 + 10 = \dots$	$199 - 10 = \dots$	$451 + 100 = \dots$	$113 - 100 = \dots$	150	189	551	13	13
14	$54 + 10 = \dots$	$161 - 10 = \dots$	$745 + 100 = \dots$	$745 - 100 = \dots$	64	151	845	645	14
15	$96 + 10 = \dots$	$160 - 10 = \dots$	$651 + 100 = \dots$	$58 - 100 = \dots$	106	150	751	-42	15
16	$125 + 10 = \dots$	$101 - 10 = \dots$	$297 + 100 = \dots$	$580 - 100 = \dots$	135	91	397	480	16
17	$170 + 10 = \dots$	$130 - 10 = \dots$	$329 + 100 = \dots$	$584 - 100 = \dots$	180	120	429	484	17
18	$44 + 10 = \dots$	$86 - 10 = \dots$	$827 + 100 = \dots$	$732 - 100 = \dots$	54	76	927	632	18
19	$66 + 10 = \dots$	$78 - 10 = \dots$	$369 + 100 = \dots$	$809 - 100 = \dots$	76	68	469	709	19
20	$105 + 10 = \dots$	$127 - 10 = \dots$	$608 + 100 = \dots$	$103 - 100 = \dots$	115	117	708	3	20

# module III

niv.2 : Ajouter ou soustraire 9 ou 11.

naturels : 9 et 11



	+ 9	- 9	+ 11	- 11		sol 1	sol 2	sol 3	sol 4	
1	$52 + 9 = \dots$	$183 - 9 = \dots$	$538 + 11 = \dots$	$440 - 11 = \dots$		60	174	549	329	1
2	$145 + 9 = \dots$	$88 - 9 = \dots$	$974 + 11 = \dots$	$183 - 11 = \dots$		154	79	9 85	172	2
3	$154 + 9 = \dots$	$107 - 9 = \dots$	$708 + 11 = \dots$	$88 - 11 = \dots$		163	98	708	77	3
4	$65 + 9 = \dots$	$140 - 9 = \dots$	$97 + 11 = \dots$	$107 - 11 = \dots$		74	131	108	96	4
5	$201 + 9 = \dots$	$217 - 9 = \dots$	$659 + 11 = \dots$	$140 - 11 = \dots$		210	208	670	129	5
6	$227 + 9 = \dots$	$136 - 9 = \dots$	$807 + 11 = \dots$	$217 - 11 = \dots$		236	127	818	206	6
7	$230 + 9 = \dots$	$111 - 9 = \dots$	$922 + 11 = \dots$	$136 - 11 = \dots$		239	102	933	125	7
8	$192 + 9 = \dots$	$53 - 9 = \dots$	$406 + 11 = \dots$	$111 - 11 = \dots$		201	44	407	100	8
9	$113 + 9 = \dots$	$226 - 9 = \dots$	$302 + 11 = \dots$	$53 - 11 = \dots$		122	217	313	42	9
10	$102 + 9 = \dots$	$120 - 9 = \dots$	$105 + 11 = \dots$	$226 - 11 = \dots$		111	111	116	215	10
11	$155 + 9 = \dots$	$80 - 9 = \dots$	$904 + 11 = \dots$	$120 - 11 = \dots$		164	71	915	109	11
12	$178 + 9 = \dots$	$156 - 9 = \dots$	$591 + 11 = \dots$	$156 - 11 = \dots$		187	147	602	145	12
13	$140 + 9 = \dots$	$199 - 9 = \dots$	$451 + 11 = \dots$	$199 - 11 = \dots$		149	190	462	188	13
14	$54 + 9 = \dots$	$161 - 9 = \dots$	$745 + 11 = \dots$	$161 - 11 = \dots$		63	152	756	150	14
15	$96 + 9 = \dots$	$160 - 9 = \dots$	$651 + 11 = \dots$	$160 - 11 = \dots$		105	151	662	149	15
16	$125 + 9 = \dots$	$101 - 9 = \dots$	$297 + 11 = \dots$	$101 - 11 = \dots$		134	92	308	90	16
17	$170 + 9 = \dots$	$130 - 9 = \dots$	$329 + 11 = \dots$	$130 - 11 = \dots$		179	121	340	119	17
18	$44 + 9 = \dots$	$86 - 9 = \dots$	$827 + 11 = \dots$	$86 - 11 = \dots$		53	77	838	75	18
19	$66 + 9 = \dots$	$78 - 9 = \dots$	$369 + 11 = \dots$	$78 - 11 = \dots$		75	69	380	67	19
20	$105 + 9 = \dots$	$127 - 9 = \dots$	$608 + 11 = \dots$	$127 - 11 = \dots$		114	118	619	116	20

# module III

naturels : 99 et 101



niv.3 : Ajouter ou soustraire 99 ou 101.



	99	99	101	101	sol 1	sol 2	sol 3	sol 4	
1	$388 + 99 = \dots$	$501 - 99 =$	$273 + 101 =$	$745 - 101 =$	487	402	374	634	1
2	$570 + 99 = \dots$	$738 - 99 = \dots$	$591 + 101 = \dots$	$440 - 101 = \dots$	669	639	692	339	2
3	$347 + 99 = \dots$	$436 - 99 = \dots$	$451 + 101 = \dots$	$814 - 101 = \dots$	446	337	552	713	3
4	$849 + 99 = \dots$	$852 - 99 = \dots$	$745 + 101 = \dots$	$839 - 101 = \dots$	948	753	846	738	4
5	$505 + 99 = \dots$	$266 - 99 = \dots$	$651 + 101 = \dots$	$697 - 101 = \dots$	604	167	752	596	5
6	$173 + 99 = \dots$	$563 - 99 = \dots$	$297 + 101 = \dots$	$542 - 101 = \dots$	272	464	398	441	6
7	$407 + 99 = \dots$	$113 - 99 = \dots$	$329 + 101 = \dots$	$551 - 101 = \dots$	506	14	430	450	7
8	$649 + 99 = \dots$	$745 - 99 = \dots$	$827 + 101 = \dots$	$185 - 101 = \dots$	748	646	928	84	8
9	$847 + 99 = \dots$	$558 - 99 = \dots$	$369 + 101 = \dots$	$738 - 101 = \dots$	946	459	470	637	9
10	$185 + 99 = \dots$	$580 - 99 = \dots$	$608 + 101 = \dots$	$436 - 101 = \dots$	284	481	709	335	10
11	$346 + 99 = \dots$	$584 - 99 = \dots$	$974 + 101 = \dots$	$852 - 101 = \dots$	445	485	1075	751	11
12	$714 + 99 = \dots$	$732 - 99 = \dots$	$708 + 101 = \dots$	$266 - 101 = \dots$	813	633	809	165	12
13	$537 + 99 = \dots$	$809 - 99 = \dots$	$97 + 101 = \dots$	$563 - 101 = \dots$	636	710	198	462	13
14	$870 + 99 = \dots$	$103 - 99 = \dots$	$659 + 101 = \dots$	$113 - 101 = \dots$	969	4	760	12	14
15	$469 + 99 = \dots$	$814 - 99 = \dots$	$807 + 101 = \dots$	$745 - 101 = \dots$	568	715	908	644	15
16	$288 + 99 = \dots$	$839 - 99 = \dots$	$922 + 101 = \dots$	$158 - 101 = \dots$	387	740	1023	47	16
17	$256 + 99 = \dots$	$697 - 99 = \dots$	$406 + 101 = \dots$	$580 - 101 = \dots$	355	598	507	479	17
18	$194 + 99 = \dots$	$542 - 99 = \dots$	$302 + 101 = \dots$	$584 - 101 = \dots$	293	443	403	483	18
19	$622 + 99 = \dots$	$551 - 99 = \dots$	$105 + 101 = \dots$	$732 - 101 = \dots$	721	452	206	631	19
20	$535 + 99 = \dots$	$185 - 99 = \dots$	$904 + 101 = \dots$	$809 - 101 = \dots$	634	86	1005	708	20



niv.1 : Décomposer pour additionner ou soustraire.



			addition		soustraction		
	addition	soustraction	décomposition	solution	décomposition	solution	
1	$18 + 64 = \dots$	$43 - 16 = \dots$	$(18+60) + 2+2 =$	82	$43-10-3-3 =$	27	1
2	$37 + 68 = \dots$	$97 - 38 = \dots$	$(37+ 60) +3 +5 =$	105	$97- 30 -7 -1 =$	59	2
3	$69 + 14 = \dots$	$76 - 39 = \dots$	$(69 + 10) +1 +3 =$	83	$76 - 30 -6 -3 =$	37	3
4	$22 + 74 = \dots$	$91 - 45 = \dots$	$(22 + 70) +4 =$	94	$91 - 40 -1 -4 =$	46	4
5	$27 + 65 = \dots$	$30 - 11 = \dots$	$(27 + 60) + 3+ 2 =$	92	$30 - 10 -1 =$	19	5
6	$64 + 27 = \dots$	$34 -9 = \dots$	$(64 + 20) + 6+ 1 =$	91	$34 - 4-5 =$	25	6
7	$14 + 67 = \dots$	$56 - 19 = \dots$	$(14+ 60) + 6+ 1 =$	81	$56 - 10 -6 -3 =$	37	7
8	$33 + 38 = \dots$	$87 - 11 = \dots$	$(33 + 30) +7 +1 =$	71	$87 - 10 -1 =$	76	8
9	$56 + 18 = \dots$	$23 - 21 = \dots$	$(56 + 10) +4 +4 =$	74	$23 - 20 -1 =$	2	9
10	$48 + 35 = \dots$	$62 - 35 = \dots$	$(48 + 30) + 2+ 3 =$	83	$62 - 30 - 2- 3 =$	28	10
11	$56 + 35 = \dots$	$44 - 28 = \dots$	$(56 + 30) +4 +1 =$	91	$44 - 20 -4 -4 =$	16	11
12	$67 + 24 = \dots$	$36 - 17 = \dots$	$(67 + 20 ) + 3 + 1 =$	91	$36 - 10 -6 -1 =$	19	12
13	$56 + 16 = \dots$	$44 - 25 = \dots$	$56 + 10 + 4+ 2 =$	72	$44 - 20- 4 - 1 =$	19	13
14	$27 + 35 = \dots$	$35 - 18 = \dots$	$27 + 30 +3 +2 =$	62	$35 - 10 -5 -3 =$	17	14
15	$78 + 14 = \dots$	$54 -5 = \dots$	$78 + 10 +2 +2 =$	92	$54 -4 -1 =$	49	15
16	$36 + 48 = \dots$	$97 - 18 = \dots$	$36 + 40 +4 +2 =$	82	$97 - 10 -7 -1 =$	79	16
17	$43 + 58 = \dots$	$34 - 16 = \dots$	$43 + 50 +7 +1 =$	91	$34 - 10 -4 -2 =$	18	17
18	$18 + 27 = \dots$	$84 -7 = \dots$	$18 + 20 +2 +5 =$	45	$84 -4 -3 =$	77	18
19	$45 + 37 = \dots$	$55 - 37 = \dots$	$45 + 30 +5 +2 =$	82	$55 - 30 -5 -2 =$	18	19
20	$84 + 8 = \dots$	$57 - 15 = \dots$	$84 +6 +2 =$	92	$57 - 15 =$	40	20

# module IV

niv.2 : Compensation.

compensation  $\leq 1000$



			addition		soustraction		
	addition	soustraction	indice	solution	indice	solution	
1	$82 + 19 = \dots$	$82 - 19 = \dots$	$81 + 20$	101	$83 - 20$	63	1
2	$79 + 56 = \dots$	$72 - 58 = \dots$	$80 + 55$	135	$74 - 60$	14	2
3	$296 + 68 = \dots$	$296 - 68 = \dots$	$300 + 64$	364	$298 - 70$	228	3
4	$416 + 197 = \dots$	$416 - 197 = \dots$	$413 + 200$	613	$419 - 200$	219	4
5	$397 + 257 = \dots$	$397 - 257 = \dots$	$400 + 254$	654	$400 - 260$	140	5
6	$698 + 244 = \dots$	$698 - 244 = \dots$	$700 + 242$	942	$700 - 246$	454	6
7	$755 + 196 = \dots$	$755 - 196 = \dots$	$751 + 200$	951	$759 - 200$	559	7
8	$368 + 98 = \dots$	$368 - 98 = \dots$	$366 + 100$	466	$370 - 100$	270	8
9	$593 + 297 = \dots$	$593 - 297 = \dots$	$590 + 300$	890	$596 - 300$	296	9
10	$644 + 398 = \dots$	$644 - 398 = \dots$	$642 + 400$	1042	$646 - 400$	246	10
11	$475 + 285 = \dots$	$475 - 285 = \dots$	$500 + 260$	760	$500 - 310$	190	11
12	$795 + 388 = \dots$	$795 - 388 = \dots$	$800 + 383$	1183	$800 - 393$	407	12
13	$1207 + 799 = \dots$	$1207 - 799 = \dots$	$1206 + 800$	2006	$1208 - 800$	408	13
14	$324 + 105 = \dots$	$324 - 105 = \dots$	$329 + 100$	429	$319 - 100$	219	14
15	$396 + 88 = \dots$	$396 - 88 = \dots$	$400 + 84$	484	$400 - 92$	308	15
16	$453 + 698 = \dots$	$453 - 698 = \dots$	$451 + 700$	1151	$455 - 700$	-245	16
17	$851 + 489 = \dots$	$851 - 489 = \dots$	$840 + 500$	1340	$862 - 500$	362	17
18	$718 + 504 = \dots$	$718 - 504 = \dots$	$722 + 500$	1222	$714 - 500$	214	18
19	$513 + 92 = \dots$	$513 - 92 = \dots$	$505 + 100$	605	$521 - 100$	421	19
20	$298 + 153 = \dots$	$298 - 153 = \dots$	$300 + 151$	451	$300 + 155$	145	20



niv.3 : Association (par associativité ou commutativité).



	addition	soustraction	indice	solutio n	indice	solutio n	
1	$21 + 34 + 29 = \dots$	$69 - 24 - 19 = \dots$	$34 + 29 + 21$	84	$69 - 24 - 19 =$	26	1
2	$35 + 42 + 58 = \dots$	$76 - 23 - 43 = \dots$	$35 + 42 + 58$	135	$76 - 23 - 43 =$	10	2
3	$83 - 53 + 26 = \dots$	$94 - 38 + 28 = \dots$	$83 - 53 + 26$	56	$94 - 38 + 28 =$	84	3
4	$375 + 35 - 70 = \dots$	$984 - 154 + 30 = \dots$	$375 + 35 - 70$	340	$984 - 154 + 30 =$	860	4
5	$778 + 54 + 22 = \dots$	$748 - 25 - 48 = \dots$	$778 + 22 + 54$	854	$748 - 25 - 48 =$	675	5
6	$654 + 46 + 128 = \dots$	$478 - 140 - 38 = \dots$	$654 + 46 + 128$	828	$478 - 140 - 38 =$	300	6
7	$22 + 34 + 28 = \dots$	$69 - 24 - 19 = \dots$	$34 + 22 + 28$	84	$69 - 24 - 19 =$	26	7
8	$678 + 120 + 22 = \dots$	$213 - 80 - 13 = \dots$	$678 + 120 + 22$	820	$213 - 80 - 13 =$	120	8
9	$232 + 48 + 64 + 16 = \dots$	$832 - 150 - 132 = \dots$	$232 + 48 + 64 + 16$	360	$832 - 132 - 150 =$	550	9
10	$456 + 15 + 44 + 135 = \dots$	$462 - 162 - 200 =$	$456 + 15 + 44 + 135$	650	$462 - 162 - 200 =$	100	10
11	$460 + 250 + 40$	$832 - 25 - 132 =$	$460 + 250 + 40$	750	$832 - 132 - 25 =$	675	11
12	$352 + 231 + 48 + 219 = \dots$	$472 - 36 - 272 = \dots$	$352 + 231 + 48 + 219$	850	$472 - 272 - 36 =$	164	12
13	$199 + 201 + 50 = \dots$	$512 - 120 - 112 = \dots$	$199 + 201 + 50$	450	$512 - 112 - 120 =$	280	13
14	$351 + 149 + 22 = \dots$	$582 - 17 - 480 = \dots$	$351 + 149 + 22$	522	$582 - 480 - 17 =$	85	14
15	$328 + 47 + 102 + 23 = \dots$	$526 - 120 - 206 = \dots$	$328 + 47 + 102 + 23$	500	$526 - 120 - 206 =$	200	15
16	$439 + 81 + 105 = \dots$	$953 - 84 - 53 - 16 = \dots$	$439 + 81 + 105$	625	$953 - 84 - 53 - 16 =$	800	16
17	$460 + 253 + 40 = \dots$	$832 - 26 - 132 = \dots$	$460 + 253 + 40$	753	$832 - 132 - 26 =$	674	17
18	$382 + 190 + 28 = \dots$	$414 - 80 - 4 = \dots$	$382 + 190 + 28$	600	$414 - 4 - 80 =$	330	18
19	$381 + 32 + 199 + 28 = \dots$	$478 - 190 - 38 = \dots$	$381 + 32 + 199 + 28$	640	$478 - 38 - 120 =$	320	19
20	$778 + 34 + 22 = \dots$	$748 - 25 - 48 = \dots$	$778 + 22 + 34 =$	834	$748 - 25 - 48 =$	675	20



			solution		
1	346 + 24 + 35 = 405 ➡ Indique la technique experte				1
	A 300 + 40 + 20 + 30 + 6 + 4 + 5 = 300 + 90 + 15 = 300 + 105 = 405	B 346 + 4 + 20 + 35 = 350 + 55 = 405	C 346 + 59 = 405	B	
2	25 + 637 + 42 = 704 ➡ Indique la technique experte				2
	A 637 + 25 + 42 = 662 + 42 = 704	B 600 + 20 + 30 + 40 + 5 + 7 + 2 = 600 + 90 + 14 = 600 + 104 = 704	C 637 + 25 + 42 = 637 + 67 = 634 + 70 = 704	B	
3	328 - 126 = 202 ➡ Indique la technique experte				3
	A 328 - 6 - 120 = 322 - 20 - 100 = 302 - 100 = 202	B 328 - 126 = 300 + 28 - 100 - 26 = 200 + 2 = 202	C 328 - 100 - 26 = 228 - 26 = 202	C	
4	18 + 237 - 42 = 213 ➡ Indique la technique experte				4
	A 235 + 20 - 42 = 235 - 22 = 213	B 18 + 237 - 42 = 255 - 42 = 213	C 18 + 237 - 2 - 30 - 10 = 18 + 205 - 10 = 18 + 195 = 213	A	
5	46 + 107 + 375 + 9 = 537 ➡ Indique la technique experte				5
	A 10 + 45 + 375 + 107 = 50 + 380 + 107 = 430 + 107 = 537	B 384 + 46 + 107 = 430 + 107 = 537	C 375 + 107 + 55 = 482 + 55 = 487 + 50 = 537	A	

# module IV

niv.5 : La technique experte : développe.

technique experte



	addition	soustraction	technique	solution	technique	solution	
1	$46 + 18 = \dots$	$308 - 195 = \dots$	$46 + 10 + 4 + 4$	64	$313 - 200$	113	1
2	$33 + 38 = \dots$	$56 - 19 = \dots$	$30 + 41$	71	$57 - 20$	37	2
3	$56 + 18 = \dots$	$87 - 11 = \dots$	$54 + 20$	74	$86 - 10$	76	3
4	$21 + 34 + 29 = \dots$	$478 - 190 - 38 = \dots$	$(21 + 29) + 34$	84	$440 - 190$	250	4
5	$35 + 42 + 58 = \dots$	$748 - 25 - 48 = \dots$	$35 + (42 + 58)$	135	$748 - 48 - 25$	675	5
6	$657 + 143 = \dots$	$205 - 190 = \dots$	$700 + 100$	800	$215 - 200$	15	6
7	$21 + 15 + 25 = \dots$	$539 - 119 = \dots$	$21 + 15 + 25$	61	$540 - 120$	420	7
8	$62 + 29 = \dots$	$82 - 19 = \dots$	$61 + 30$	91	$83 - 20$	63	8
9	$89 + 56 = \dots$	$72 - 58 = \dots$	$90 + 55$	145	$74 - 60$	14	9
10	$421 + 27 + 129 = \dots$	$568 - 214 = \dots$	$(421 + 129) + 27$	577	$554 - 200$	354	10
11	$997 + 579 = \dots$	$626 - 90 = \dots$	$1000 + 576$	1576	$636 - 100$	536	11
12	$346 + 24 + 35 = \dots$	$476 - 39 = \dots$	$(346 + 24) + 35$	405	$477 - 40$	437	12
13	$576 + 24 + 59$	$540 - 95 = \dots$	$(576 + 24) + 59$	659	$500 - 55$	445	
14	$665 + 315 + 35$	$236 - 56 = \dots$	$(665 + 35) + 315$	1015	$200 - 20$	180	
15	$152 + 28 + 20$	$190 - 110 = \dots$	$(152 + 28) + 20$	200	$100 - 20$	80	





niv.1 : Nombre à une décimale : additions, soustractions et compléments à l'unité.



	addition	soustraction	complément	complément	add	sous	comp	comp	
1	$7,3 + 1 = \dots$	$7,7 - 3 = \dots$	$0,1 + \dots = 1$	$1 - \dots = 0,1$	8,5	4,7	0,9	0,9	1
2	$7 + 2,1 = \dots$	$7 - 3,5 = \dots$	$\dots + 0,4 = 1$	$\dots + 0,4 = 2$	9,1	3,5	0,6	1,6	2
3	$2,3 + 4,6 = \dots$	$6 - 2,3 = \dots$	$1 = 0,5 + \dots$	$10 = 0,5 + \dots$	6,9	3,7	0,5	9,5	3
4	$3,5 + 4 = \dots$	$8,8 - 4,3 = \dots$	$\dots + 0,8 = 1$	$\dots + 0,8 = 1$	7,5	4,5	0,2	0,2	4
5	$2,3 + 7,2 = \dots$	$5,4 - 3,1 = \dots$	$0,3 + \dots = 1$	$0,3 - \dots = 0$	9,5	2,3	0,7	0,3	5
6	$5 + 2,8 = \dots$	$4 - 2,2 = \dots$	$1 = \dots + 0,2$	$\dots + 1,7 = 2$	7,8	1,8	0,8	0,3	6
7	$8 + 1,9 = \dots$	$9,9 - 4,6 = \dots$	$1 - \dots = 0,4$	$1 - \dots = 0,4$	9,9	5,3	0,6	0,6	7
8	$2,4 + 3,3 = \dots$	$7,3 - 1,2 = \dots$	$\dots + 0,9 = 1$	$10 - \dots = 6,5$	5,7	6,1	0,1	3,5	8
9	$4,1 + 5,4 = \dots$	$6 - 5,7 = \dots$	$1 - \dots = 0,5$	$4,5 + \dots = 10$	9,5	0,3	0,5	5,5	9
10	$7,6 + 2,2 = \dots$	$3,8 - 2,5 = \dots$	$1 = \dots + 0,7$	$1 = 0,4 + \dots$	9,8	1,3	0,3	0,6	10
11	$6,5 + 2,4 = \dots$	$5,6 - 2 = \dots$	$1 - \dots = 0,8$	$1 = 0,2 + \dots$	8,9	3,6	0,2	0,8	11
12	$5,5 + 3 = \dots$	$4 - 2,8 = \dots$	$1 = 0,2 + \dots$	$\dots + 0,7 = 2$	8,5	1,2	0,8	1,3	12
13	$3,2 + 4,7 = \dots$	$7,7 - 5,2 = \dots$	$1 - \dots = 0,6$	$\dots + 1,1 = 2$	7,9	2,5	0,4	0,9	13
14	$1,7 + 3,2 = \dots$	$8,4 - 2,4 = \dots$	$\dots + 0,5 = 1$	$10 = \dots + 2,7$	4,9	6	0,5	7,3	14
15	$4,6 + 2 = \dots$	$7 - 4,6 = \dots$	$1 - \dots = 0,1$	$10 = \dots + 5,4$	6,6	2,4	0,9	4,6	15
16	$3,5 + 6,1 = \dots$	$2,7 - 1,5 = \dots$	$0,6 + \dots = 1$	$1 = 0,5 + \dots$	9,6	1,2	0,4	0,5	16
17	$7,3 + 1,4 = \dots$	$4,5 - 2,3 = \dots$	$\dots + 0,4 = 1$	$2 = \dots + 0,8$	8,7	2,2	0,6	1,2	17
18	$5,2 + 2,5 = \dots$	$9,5 - 4 = \dots$	$1 = \dots + 0,8$	$\dots + 8,3 = 10$	7,7	5,5	0,2	1,7	18
19	$2,3 + 4,6 = \dots$	$6,8 - 3,5 = \dots$	$1 - \dots = 0,9$	$1 = 0,7 + \dots$	6,9	3,3	0,1	0,3	19
20	$8,1 + 1 = \dots$	$2,5 - 1,2 = \dots$	$1 = 0,1 + \dots$	$2 = 0,7 + \dots$	9,1	1,3	0,9	1,3	20



niv.2 : Nombre à deux décimales : additions, soustractions et compléments à l'unité.



	addition	soustraction	complément	complément	add	sous	com	com	
1	$3,45 + 2,1 = \dots$	$6,32 - 1,2 = \dots$	$0,32 + \dots = 1$	$7,32 + \dots = 8$	5,55	5,12	0,68	0,68	1
2	$2,36 + 5,3 = \dots$	$9,46 - 5,31 = \dots$	$0,64 + \dots = 1$	$4,64 + \dots = 5$	7,66	4,16	0,36	0,36	2
3	$7,1 + 2,03 = \dots$	$2,34 - 0,01 = \dots$	$0,25 + \dots = 1$	$6,25 + \dots = 7$	9,13	2,33	0,75	0,75	3
4	$6,05 + 3,04 = \dots$	$3,43 - 2,01 = \dots$	$0,10 + \dots = 1$	$0,10 + \dots = 1$	9,09	1,42	0,9	0,9	4
5	$3,12 + 1,23 = \dots$	$3,12 - 0,04 = \dots$	$0,75 + \dots = 1$	$9,75 + \dots = 10$	4,35	3,08	0,25	0,25	5
6	$1,52 + 2,4 = \dots$	$4,64 - 0,32 = \dots$	$1 - \dots = 0,46$	$10 - \dots = 9,32$	3,92	4,32	0,54	0,68	6
7	$3,41 + 2,32 = \dots$	$2,32 - 0,11 = \dots$	$1 - \dots = 0,52$	$1 - \dots = 0,46$	5,73	2,21	0,48	0,54	7
8	$8,89 + 0,1 = \dots$	$5,38 - 0,2 = \dots$	$0,35 + \dots = 1$	$3,85 + \dots = 4$	8,99	5,18	0,65	0,15	8
9	$3,43 + 2,5 = \dots$	$4,84 - 2,3 = \dots$	$0,28 + \dots = 1$	$5,72 + \dots = 6$	5,93	2,54	0,72	0,28	9
10	$0,24 + 3,43 = \dots$	$4,5 - 0,41 = \dots$	$1 = \dots + 0,88$	$7,21 + \dots = 8$	3,67	4,09	0,12	0,79	10
11	$5,3 + 4,54 = \dots$	$7,86 - 5,46 = \dots$	$1 = \dots + 0,15$	$7 = 6,01 + \dots$	9,84	2,4	0,85	0,99	11
12	$2,1 + 1,68 = \dots$	$8,31 - 5,01 = \dots$	$0,21 + \dots = 1$	$4,75 + \dots = 5$	3,78	3,3	0,79	0,25	12
13	$1,36 + 1,01 = \dots$	$8,7 - 5,02 = \dots$	$0,61 + \dots = 1$	$3,84 + \dots = 4$	2,37	3,68	0,39	0,16	13
14	$8,5 + 0,08 = \dots$	$6,45 - 6,34 = \dots$	$1 - \dots = 0,77$	$1 = 0,99 + \dots$	8,58	0,11	0,23	0,01	14
15	$5,42 + 4,07 = \dots$	$1,88 - 0,54 = \dots$	$1 - \dots = 0,41$	$1 - \dots = 0,25$	9,49	1,34	0,59	0,75	15
16	$2,36 + 4,1 = \dots$	$5,32 - 0,21 = \dots$	$1 = 0,19 + \dots$	$1 - \dots = 0,34$	6,46	5,11	0,81	0,66	16
17	$5,7 + 3,04 = \dots$	$3,85 - 1,4 = \dots$	$1 = 0,71 + \dots$	$10 - \dots = 9,65$	8,74	2,45	0,29	0,35	17
18	$2,6 + 3,38 = \dots$	$4,84 - 2,2 = \dots$	$0,31 + \dots = 1$	$1,28 + \dots = 2$	5,98	2,62	0,69	0,72	18
19	$1,84 + 7,1 = \dots$	$2,77 - 1,4 = \dots$	$0,52 + \dots = 1$	$4,66 + \dots = 5$	8,94	1,37	0,48	0,34	19
20	$3,32 + 1,13 = \dots$	$7,41 - 1,41 = \dots$	$1 - \dots = 0,02$	$10 = 9,12 + \dots$	4,45	6	0,98	0,88	20



	addition	soustraction	encadrement	add	sous	encadrement	
1	$26 + 9,15 = \dots$	$61,464 - 30 = \dots$	$\dots < 899,62 < \dots$	35,150	31,464	899	1
2	$14 + 7,274 = \dots$	$89,637 - 42 = \dots$	$\dots < 192,83 < \dots$	21,274	47,637	192	2
3	$28 + 8,535 = \dots$	$59,222 - 24 = \dots$	$\dots < 338,17 < \dots$	36,535	35,222	338	3
4	$16 + 6,683 = \dots$	$58,674 - 6 = \dots$	$\dots < 578,22 < \dots$	22,683	52,674	578	4
5	$27 + 4,166 = \dots$	$57,646 - 15 = \dots$	$\dots < 805,04 < \dots$	31,166	42,646	805	5
6	$82 + 9,513 = \dots$	$70,493 - 44 = \dots$	$\dots < 116,75 < \dots$	91,513	26,493	116	6
7	$14 + 8,544 = \dots$	$85,196 - 2 = \dots$	$\dots < 285,37 < \dots$	22,544	83,196	285	7
8	$82 + 3,391 = \dots$	$71,392 - 28 = \dots$	$\dots < 290,23 < \dots$	85,391	43,392	290	8
9	$59 + 4,881 = \dots$	$87,45 - 33 = \dots$	$\dots < 788,49 < \dots$	63,881	54,450	788	9
10	$3 + 1,312 = \dots$	$82,446 - 45 = \dots$	$\dots < 545,37 < \dots$	4,312	37,446	545	10
11	$66 + 4,417 = \dots$	$84,545 - 47 = \dots$	$\dots < 170,21 < \dots$	70,417	37,545	170	11
12	$24 + 4,605 = \dots$	$67,994 - 45 = \dots$	$\dots < 710,1 < \dots$	28,605	22,994	710	12
13	$58 + 9,804 = \dots$	$91,182 - 41 = \dots$	$\dots < 694,36 < \dots$	67,804	50,182	694	13
14	$37 + 3,377 = \dots$	$98,476 - 49 = \dots$	$\dots < 382,22 < \dots$	40,377	49,476	382	14
15	$91 + 3,645 = \dots$	$57,011 - 48 = \dots$	$\dots < 623,83 < \dots$	94,645	9,011	623	15
16	$22 + 1,787 = \dots$	$73,502 - 26 = \dots$	$\dots < 236,37 < \dots$	23,787	47,502	236	16
17	$30 + 2,862 = \dots$	$70,851 - 33 = \dots$	$\dots < 918,76 < \dots$	32,862	37,851	918	17
18	$7 + 2,448 = \dots$	$52,042 - 48 = \dots$	$\dots < 364,98 < \dots$	9,448	4,042	364	18
19	$61 + 4,644 = \dots$	$56,105 - 36 = \dots$	$\dots < 421,47 < \dots$	65,644	20,105	421	19
20	$5 + 5,896 = \dots$	$61,222 - 15 = \dots$	$\dots < 488,34 < \dots$	10,896	46,222	488	20

# module V

niv.4 : Décomposer pour additionner ou soustraire jusqu'au 0.1.

décimaux - décomposition



	addition	soustraction	décomposition	solution	décomposition	solution	
1	$7,3 + 1,8 =$	$7,8 - 3,9 =$	$(7,3 + 0,7) + 1,1 =$	9,1	$7,8 - 3,8 - 0,1 =$	3,9	1
2	$6,7 + 2,8 =$	$7 - 3,5 =$	$(6,7 + 0,3) + 2,5 =$	9,5	$7 - 3 - 0,5 =$	3,5	2
3	$2,3 + 4,9 =$	$6 - 2,3 =$	$(2,3 + 0,7) + 4,2 =$	7,2	$6 - 2 - 0,3 =$	3,7	3
4	$3,5 + 4,6 =$	$8,8 - 4,9 =$	$(3,5 + 0,5) + 4,1 =$	8,1	$8,8 - 4,8 - 0,1 =$	3,9	4
5	$2,3 + 7,9 =$	$5,4 - 3,7 =$	$(2,3 + 0,7) + 7,2 =$	10,2	$5,4 - 3,4 - 0,3 =$	1,7	5
6	$5,6 + 4,8 =$	$19 - 6,9 =$	$(5,6 + 0,4) + 4,4 =$	10,4	$19 - 6 - 0,9 =$	12,1	6
7	$6,6 + 3,5 =$	$14,3 - 7,7 =$	$(6,6 + 0,4) + 3,1 =$	10,1	$14,3 - 7,3 - 0,4 =$	6,6	7
8	$1,2 + 2,8 =$	$8 - 4,3 =$	$(1,2 + 0,8) + 2 =$	4	$8 - 4 - 0,3 =$	3,7	8
9	$2,6 + 3,4 =$	$7,3 - 5,9 =$	$(2,6 + 0,4) + 3 =$	6	$7,3 - 5,3 - 0,6 =$	1,4	9
10	$7,3 + 8,8 =$	$9,5 - 8,8 =$	$(7,3 + 0,7) + 8,1 =$	16,1	$9,5 - 8,5 - 0,3 =$	0,7	10
11	$3,7 + 5,5 =$	$13,5 - 4,6 =$	$(3,7 + 0,3) + 5,2 =$	9,2	$13,5 - 3,5 - 1,1 =$	8,9	11
12	$1,4 + 3,9 =$	$10 - 6,6 =$	$1,4 + 0,6 + 3,3 =$	5,3	$10 - 6 - 0,6 =$	3,4	12
13	$5,5 + 7,6 =$	$5,8 - 3,9 =$	$5,5 + 0,5 + 7,1 =$	13,1	$5,8 - 3,8 - 0,1 =$	1,9	13
14	$6,6 + 8,7 =$	$15,6 - 8,7 =$	$6,6 + 0,4 + 8,3 =$	15,3	$15,6 - 8,6 - 0,1 =$	6,9	14
15	$2,6 + 4,5 =$	$13,2 - 10,8 =$	$2,6 + 0,4 + 4,1 =$	7,1	$13,2 - 10,2 - 0,6 =$	2,4	15
16	$4,2 + 6,8 =$	$9,6 - 5,6 =$	$4,2 + 0,8 + 6 =$	11	$9,6 - 5,6 =$	4	16
17	$3,5 + 9,5 =$	$4,5 - 1,8 =$	$3,5 + 0,5 + 9 =$	13	$4,5 - 1,5 - 0,3 =$	2,7	17
18	$7,7 + 3,4 =$	$6,3 - 4,4 =$	$7,7 + 0,3 + 3,1 =$	11,1	$6,3 - 4,3 - 0,1 =$	1,9	18
19	$6,9 + 2,3 =$	$5 - 4,8 =$	$6,9 + 0,1 + 2,2 =$	9,2	$5 - 4 - 0,8 =$	0,2	19
20	$4,8 + 6,5 =$	$10,5 - 7,7 =$	$4,8 + 0,2 + 6,3 =$	11,3	$10,5 - 7,5 - 0,2 =$	2,8	20

# module V

niv.5 : Additions et soustractions de 0,01 à 100.

2 décimales



	addition	soustraction	add	sou	
1	$30,45 + 62,7 = \dots$	$26 - 16,4 = \dots$	93,15	9,6	1
2	$43,43 + 22,6 = \dots$	$79,4 - 25,70 = \dots$	66,03	53,7	2
3	$23,45 + 45,7 = \dots$	$62,34 - 20,8 = \dots$	69,15	41,54	3
4	$67,54 + 22,81 = \dots$	$63,49 - 12,9 = \dots$	90,35	50,59	4
5	$43,12 + 41,9 = \dots$	$23,89 - 6,9 = \dots$	85,02	16,99	5
6	$10,88 + 7,54 = \dots$	$45,1 - 5,01 = \dots$	18,42	40,09	6
7	$10,75 + 20,25 = \dots$	$10,24 - 9,78 = \dots$	31	0,46	7
8	$42,56 + 13,65 = \dots$	$30,88 - 20,99 = \dots$	56,21	9,89	8
9	$30,07 + 23,68 = \dots$	$40,34 - 10,99 = \dots$	53,75	29,35	9
10	$74,58 + 20,42 = \dots$	$70,38 - 30,7 = \dots$	95	39,68	10
11	$20,87 + 35,4 = \dots$	$30,18 - 10,82 = \dots$	56,27	19,36	11
12	$25,42 + 37 = \dots$	$10,45 - 3,80 = \dots$	62,42	6,65	12
13	$84 + 38,82 = \dots$	$25,87 - 7,99 = \dots$	122,22	17,88	13
14	$42,84 + 20,16 = \dots$	$44,68 - 11,99 = \dots$	63	32,69	14
15	$52,42 + 37,85 = \dots$	$65,08 - 10,01 = \dots$	90,27	55,07	15
16	$31,35 + 38,65 = \dots$	$74,55 - 25,01 = \dots$	70	49,54	16
17	$63,07 + 10,8 = \dots$	$33,27 - 24,43 = \dots$	73,87	8,84	17
18	$13,25 + 10,99 = \dots$	$13,48 - 10,99 = \dots$	24,24	2,49	18
19	$24 + 35,42 = \dots$	$65,32 - 50,99 = \dots$	59,42	14,33	19
20	$34,66 + 24,34 = \dots$	$34,88 - 7,9 = \dots$	59	26,98	20



niv.1 : Additions et soustractions des entiers - 2 termes.



	colonne 1	colonne 2	colonne 3	col.1	col.2	col.3	
1	$5 - 7 = \dots$	$13 - 18 = \dots$	$19 - 98 = \dots$	-2	-5	-79	1
2	$6 - 8 = \dots$	$-54 - 4 = \dots$	$13 + 33 = \dots$	-2	-58	46	2
3	$9 - 10 = \dots$	$-54 + 4 = \dots$	$66 - 69 = \dots$	-1	-50	-3	3
4	$-8 + 4 = \dots$	$-31 + (-6) = \dots$	$70 + 28 = \dots$	-4	-37	98	4
5	$(-5) + 8 = \dots$	$-17 - 22 = \dots$	$34 - 45 = \dots$	3	-39	-11	5
6	$(-7) + 6 = \dots$	$54 - 19 = \dots$	$34 + 17 = \dots$	-1	35	51	6
7	$13 + 4 = \dots$	$13 + 67 = \dots$	$(-87) - 11 = \dots$	17	80	-98	7
8	$14 - 7 = \dots$	$34 + 54 = \dots$	$78 - 65 = \dots$	7	88	13	8
9	$19 + 1 = \dots$	$12 + 56 = \dots$	$13 + 17 = \dots$	20	68	30	9
10	$20 - 19 = \dots$	$45 - 56 = \dots$	$34 - 75 = \dots$	1	-11	-36	10
11	$(-7) + 9 = \dots$	$17 - 76 = \dots$	$33 + 56 = \dots$	2	-59	89	11
12	$6 - 15 = \dots$	$11 + (-56) = \dots$	$45 - (34) = \dots$	-9	-45	11	12
13	$14 - 19 = \dots$	$13 + 65 = \dots$	$12 + 76 = \dots$	-5	78	88	13
14	$11 - 17 = \dots$	$(-57) + 63 = \dots$	$34 - 45 = \dots$	-6	6	-11	14
15	$4 + 13 = \dots$	$(-16) + (-76) = \dots$	$17 + 53 = \dots$	17	92	70	15
16	$7 + 9 = \dots$	$11 + 34 = \dots$	$0 - 87 = \dots$	16	45	-87	16
17	$17 - 7 = \dots$	$45 - 68 = \dots$	$24 + 5 = \dots$	10	-23	29	17
18	$10 - 16 = \dots$	$44 - 98 = \dots$	$27 + 56 = \dots$	-6	54	83	18
19	$(-1) - 17 = \dots$	$67 + 23 = \dots$	$15 - 28 = \dots$	-18	80	-13	19
20	$11 - 15 = \dots$	$62 - 162 = \dots$	$26 + 67 = \dots$	-4	-100	93	20



	colonne 1	colonne 2	col1	col2	
1	$(+45) - (-7) = \dots$	$(-38) + (-20) = \dots$	52	-58	1
2	$(+16) - (+14) = \dots$	$(-32) + (-47) = \dots$	2	-79	2
3	$(-30) + (-41) = \dots$	$(+9) - (+19) = \dots$	-71	-10	3
4	$(-9) - (+36) = \dots$	$(+28) + (-29) = \dots$	-45	-1	4
5	$(-33) - (+28) = \dots$	$(+14) + (-29) = \dots$	-61	-15	5
6	$(-42) - (-23) = \dots$	$(+28) + (-31) = \dots$	-19	-3	6
7	$(+44) + (+42) = \dots$	$(-14) + (-3) = \dots$	86	-17	7
8	$(+37) + (+47) = \dots$	$(-38) + (-35) = \dots$	84	-73	8
9	$(-4) + (-13) = \dots$	$(-46) + (-32) = \dots$	-17	-78	9
10	$(-48) - (-26) = \dots$	$(+27) + (-12) = \dots$	-22	15	10
11	$(+45) - (-32) = \dots$	$(-21) + (+0) = \dots$	77	-21	11
12	$(-10) - (-1) = \dots$	$(-39) - (-8) = \dots$	-9	-31	12
13	$(+10) + (+40) = \dots$	$(-28) + (-23) = \dots$	50	-51	13
14	$(+49) + (-47) = \dots$	$(-44) + (-30) = \dots$	2	-74	14
15	$(-2) + (-16) = \dots$	$(+4) - (-49) = \dots$	-18	53	15
16	$(-4) + (+5) = \dots$	$(-46) + (-3) = \dots$	1	-49	16
17	$(-39) + (-46) = \dots$	$(+38) - (-46) = \dots$	-85	84	17
18	$(+6) + (-29) = \dots$	$(+8) + (+32) = \dots$	-23	40	18
19	$(+21) - (+27) = \dots$	$(-13) + (-12) = \dots$	-6	-25	19
20	$(-6) + (+2) = \dots$	$(-19) + (-25) = \dots$	-4	-44	20



niv.2 : Additions et soustractions (2 termes - avec successions de signes).



	colonne 1	colonne 2	col1	col2	
1	$(+49) - (+48) = \dots$	$(+24) - (+47) = \dots$	1	-23	1
2	$(-24) - (-39) = \dots$	$(-7) - (+23) = \dots$	15	-30	2
3	$(-13) + (-37) = \dots$	$(-30) + (+13) = \dots$	-50	-17	3
4	$(+29) - (-46) = \dots$	$(+11) - (-24) = \dots$	75	35	4
5	$(-26) + (+49) = \dots$	$(-1) - (+35) = \dots$	23	-36	5
6	$(-33) + (-35) = \dots$	$(-17) + (-37) = \dots$	-68	-54	6
7	$(-36) - (+34) = \dots$	$(+27) - (+0) = \dots$	-70	27	7
8	$(-5) + (+0) = \dots$	$(-28) + (-43) = \dots$	-5	-71	8
9	$(+37) + (-45) = \dots$	$(+5) - (+41) = \dots$	-8	-36	9
10	$(+41) + (-38) = \dots$	$(-28) + (+15) = \dots$	3	-13	10
11	$(+27) + (-6) = \dots$	$(-14) - (-47) = \dots$	21	33	11
12	$(+43) - (-44) = \dots$	$(-36) + (+7) = \dots$	87	-29	12
13	$(-17) - (-8) = \dots$	$(-36) - (+3) = \dots$	-9	-39	13
14	$(-44) + (-47) = \dots$	$(-40) - (+19) = \dots$	-91	-59	14
15	$(+8) - (-5) = \dots$	$(+15) + (+48) = \dots$	13	63	15
16	$(-42) + (-41) = \dots$	$(-37) - (-31) = \dots$	-83	-6	16
17	$(+6) + (+4) = \dots$	$(-29) - (+49) = \dots$	10	-78	17
18	$(-29) + (+49) = \dots$	$(-33) - (+10) = \dots$	20	-43	18
19	$(+43) + (+45) = \dots$	$(-8) - (-46) = \dots$	88	38	19
20	$(+1) + (+15) = \dots$	$(-48) - (+5) = \dots$	16	-53	20





niv.3 : Additions et soustractions plus de 2 termes.



	colonne 1	colonne 2	col1	col2	
1	$-16 - (-17) - (-14) - 3 = \dots$	$0 - (-48) - (-13) - (-9) - 2 = \dots$	12	68	1
2	$43 - (-6) + (-15) - 1 + 25 + (-30) = \dots$	$-33 + (-48) + (-26) = \dots$	28	-107	2
3	$-10 - (-38) + 36 - 23 - 23 + (-48) = \dots$	$-14 - (-1) - 40 = \dots$	-30	-53	3
4	$-4 + 9 - 12 - (-29) + (-8) = \dots$	$-37 - (-47) + (-46) - 27 = \dots$	14	-63	4
5	$-49 + (-26) - 20 - 34 - (-32) - 36 = \dots$	$-27 + (-34) + (-31) - (-42) - (-20) - 41 = \dots$	-133	-71	5
6	$35 + (-12) - (-6) = \dots$	$-48 + (-37) - (-20) + 26 + (-44) = \dots$	29	-83	6
7	$-42 + (-20) - 48 + (-6) - (-29) + (-46) = \dots$	$-15 - (-16) - (-29) = \dots$	-133	30	7
8	$22 - (-23) - 32 = \dots$	$-34 - (-7) - 45 - (-24) = \dots$	13	-48	8
9	$-17 - 49 - 22 = \dots$	$44 + (-14) - 7 - (-43) - 44 = \dots$	-88	22	9
10	$-30 + 36 + (-6) + (-48) = \dots$	$-32 + (-17) + 49 - 29 - (-21) = \dots$	-48	-8	10
11	$-25 - 38 + 0 + (-32) + (-30) = \dots$	$-12 - 26 + 4 = \dots$	-125	-34	11
12	$-25 + 45 - (-14) - (-24) + (-14) = \dots$	$-39 + 41 - 49 + (-27) + (-10) = \dots$	44	-84	12
13	$5 + 21 + (-26) + 41 - 20 = \dots$	$41 - (-2) + 36 = \dots$	21	79	13
14	$-2 + 0 + (-16) = \dots$	$-18 + (-28) - (-8) + (-49) = \dots$	-18	-87	14
15	$-30 + (-5) + 43 + 13 + 41 + 35 = \dots$	$7 - (-5) - (-43) - (-17) = \dots$	97	72	15
16	$45 - 12 + 25 = \dots$	$-2 - (-30) - (-46) = \dots$	58	74	16
17	$-1 + (-19) - (-8) = \dots$	$31 - 19 - (-3) + (-36) = \dots$	-12	-21	17
18	$-49 + 25 + (-2) - 9 + 21 = \dots$	$18 - (-32) - 12 + (-24) + 8 = \dots$	-14	22	18
19	$-43 + (-7) - (-37) - (-5) + 29 = \dots$	$-45 + (-22) + 7 + 8 = \dots$	21	-52	19
20	$-18 - (-33) - 33 = \dots$	$-10 + 4 - (-26) - (-30) = \dots$	-18	50	20



niv.3 : Additions et soustractions plus de 2 termes.



	colonne 1	colonne 2	col1	col2	
1	$-12 - 28 + (-25) = \dots$	$-31 + (-18) + 42 - (-39) = \dots$	-65	32	1
2	$-36 - 2 + (-29) + 7 + 4 = \dots$	$-38 - 7 - (-23) = \dots$	-56	-22	2
3	$17 - 30 - (-35) + 0 - (-16) = \dots$	$13 - (-21) + 22 = \dots$	38	56	3
4	$22 - (-9) - (-33) + 6 - (-23) = \dots$	$27 + (-49) + (-12) - (-11) = \dots$	93	-23	4
5	$-40 + (-31) + (-15) + (-32) - 41 = \dots$	$6 - (-41) + (-44) = \dots$	-159	3	5
6	$-19 + 5 + (-40) - 40 = \dots$	$-44 + (-23) - 4 + 10 + (-35) = \dots$	-94	-96	6
7	$-21 + (-30) + 38 - (-3) + 28 + 36 = \dots$	$49 + (-16) + (-26) + (-32) + 40 = \dots$	54	15	7
8	$7 + (-4) + 25 + (-24) - (-8) = \dots$	$-4 + 40 + (-19) - 25 + (-29) + (-11) = \dots$	12u	-48	8
9	$-49 + (-7) + (-17) + (-41) + (-30) = \dots$	$-30 + 12 - 12 - (-41) = \dots$	-144	11	9
10	$-8 + (-48) + (-42) = \dots$	$-45 - (-46) - 39 + (-35) = \dots$	-98	-73	10
11	$-20 - 2 - (-28) - (-38) = \dots$	$-40 + (-25) - (-7) + (-7) = \dots$	44	-65	11
12	$30 + (-41) - (-29) = \dots$	$-33 - (-35) - (-27) + (-11) = \dots$	18	18	12
13	$-40 + (-6) + (-9) + (-20) - 32 = \dots$	$-28 + (-47) + 32 - (-34) + (-8) + 14 = \dots$	-107	-3	13
14	$-7 + 29 + (-18) + 3 = \dots$	$-4 - 42 + 46 - (-36) + (-34) - 5 = \dots$	7	-3	14
15	$-37 + (-5) + 20 = \dots$	$-26 - (-17) + (-16) + (-40) = \dots$	-22	-65	15
16	$-47 - (-44) - (-15) = \dots$	$-44 + (-44) - (-34) - (-34) + (-2) + 16 = \dots$	12	-6	16
17	$38 - 7 + (-27) = \dots$	$2 + 6 + 12 - (-j48) + 41 - (-3) = \dots$	4	112	17
18	$0 + (-21) - (-28) + 47 = \dots$	$-9 + 24 - (-19) - (-23) - (-23) = \dots$	54	80	18
19	$-18 - (-5) + 30 = \dots$	$-42 + (-36) - (-25) + (-24) + (-30) - (-15) = \dots$	17	-92	19
20	$40 + 43 - (-10) + 29 - (-17) = \dots$	$-46 - (-19) + (-44) - 34 + (-13) = \dots$	139	-118	20