



2021/2022

Filière: industries pétrochimiques
génie du raffinage

Niveau:

Matière: Anglais Technique et Terminologie / Section A / 1

PV de délibération par matière

#	Matricule	Examen	CC	MG
1	181839072338	5.0	0.0	5.0
2	161639074268	0.0	0.0	0.0
3	171739070597	10.0	0.0	10.0
4	181839073100	8.0	0.0	8.0
5	161639076723	8.0	0.0	8.0
6	171739071143	9.0	0.0	9.0
7	171739074366	11.0	0.0	11.0
8	161639069982	15.5	0.0	15.5
9	161639076724	6.0	0.0	6.0
10	171739074200	10.0	0.0	10.0
11	171739074290	9.0	0.0	9.0
12	181839072340	7.0	0.0	7.0
13	21089053634	0.0	0.0	0.0
14	181836049736	16.5	0.0	16.5
15	161639067859	10.0	0.0	10.0
16	161639074262	12.0	0.0	12.0
17	181839064492	5.0	0.0	5.0
18	151539070140	0.0	0.0	0.0
19	161639076220	10.0	0.0	10.0
20	171739074319	8.0	0.0	8.0
21	171739071174	12.0	0.0	12.0
22	181839065386	9.0	0.0	9.0
23	171739070762	0.0	0.0	0.0
24	181839070291	7.0	0.0	7.0
25	171739071720	0.0	0.0	0.0
26	161639076221	0.0	0.0	0.0
27	16069039979	10.0	0.0	10.0
28	171739064752	10.0	0.0	10.0
29	171739051097	9.0	0.0	9.0
30	161639076851	10.0	0.0	10.0
31	161639069032	10.0	0.0	10.0
32	181839065231	10.5	0.0	10.5
33	161639084292	0.0	0.0	0.0
34	181839066946	10.0	0.0	10.0
35	161639083661	0.0	0.0	0.0
36	171739075357	10.0	0.0	10.0
37	161639078503	10.5	0.0	10.5
38	171739068364	9.0	0.0	9.0
39	171739072634	0.0	0.0	0.0
40	171739066225	18.0	0.0	18.0
41	161639074222	0.0	0.0	0.0
42	161639076834	0.0	0.0	0.0
43	161439058618	0.0	0.0	0.0
44	161539052882	0.0	0.0	0.0
45	181539070542	10.0	0.0	10.0
46	161539076267	0.0	0.0	0.0
47	161539065742	0.0	0.0	0.0
48	20129053237	10.0	0.0	10.0
49	161539072610	5.0	0.0	5.0
50	161439057995	10.0	0.0	10.0

Signature de l'enseignant:

Le:

2021/2022

Filière: industries pétrochimiques
génie du raffinage

Niveau: Arrêté d'habilitation de

Matière: Catalyseurs Industriels / Section A / 1

PV de délibération par matière

#	Matricule	Examen	CC	MG
1	181839072338	1.0	0.0	1.0
2	161639074268	0.0	0.0	0.0
3	171739070597	9.0	0.0	9.0
4	181839073100	2.0	0.0	2.0
5	161639076723	0.5	0.0	0.5
6	171739071143	1.0	0.0	1.0
7	171739074366	7.0	0.0	7.0
8	161639069982	0.0	0.0	0.0
9	161639076724	0.5	0.0	0.5
10	171739074200	5.0	0.0	5.0
11	171739074290	9.0	0.0	9.0
12	181839072340	1.0	0.0	1.0
13	21089053634	0.0	0.0	0.0
14	181836049736	15.0	0.0	15.0
15	161639067859	0.0	0.0	0.0
16	161639074262	7.0	0.0	7.0
17	181839064492	12.0	0.0	12.0
18	151539070140	0.0	0.0	0.0
19	161639076220	12.0	0.0	12.0
20	171739074319	7.0	0.0	7.0
21	171739071174	1.0	0.0	1.0
22	181839065386	10.0	0.0	10.0
23	171739070762	0.0	0.0	0.0
24	181839070291	9.0	0.0	9.0
25	171739071720	0.0	0.0	0.0
26	161639076221	0.0	0.0	0.0
27	16069039979	15.0	0.0	15.0
28	171739064752	2.0	0.0	2.0
29	171739051097	7.0	0.0	7.0
30	161639076851	1.0	0.0	1.0
31	161639069032	10.0	0.0	10.0
32	181839065231	10.0	0.0	10.0
33	161639084292	0.0	0.0	0.0
34	181839066946	2.0	0.0	2.0
35	161639083661	0.0	0.0	0.0
36	171739075357	0.0	0.0	0.0
37	161639078503	2.0	0.0	2.0
38	171739068364	2.0	0.0	2.0
39	171739072634	0.0	0.0	0.0
40	171739066225	7.0	0.0	7.0
41	161639074222	0.0	0.0	0.0
42	161639076834	7.0	0.0	7.0
43	161439058618	0.0	0.0	0.0
44	161539052882	14.0	0.0	14.0
45	181539070542	1.0	0.0	1.0
46	161539076267	0.0	0.0	0.0
47	161539065742	11.0	0.0	11.0
48	20129053237	0.0	0.0	0.0
49	161539072610	2.0	0.0	2.0
50	161439057995	10.0	0.0	10.0

Signature de l'enseignant:

Le:

2021/2022

Filière: industries pétrochimiques
génie du raffinage

Niveau: Arrêté d'habilitation de

Matière: Du Brut aux Produits / Section A / 1

PV de délibération par matière

#	Matricule	Examen	CC	MG
1	181839072338	6.5	0.0	3.9
2	161639074268	0.0	0.0	0.0
3	171739070597	8.5	8.9	8.66
4	181839073100	5.5	0.0	3.3
5	161639076723	6.0	8.3	6.92
6	171739071143	13.78	13.78	13.78
7	171739074366	6.0	3.0	4.8
8	161639069982	14.95	14.95	14.95
9	161639076724	14.75	14.75	14.75
10	171739074200	7.0	3.0	5.4
11	171739074290	7.5	4.0	6.1
12	181839072340	6.0	0.0	3.6
13	21089053634	0.0	0.0	0.0
14	181836049736	16.0	14.0	15.2
15	161639067859	11.54	11.54	11.54
16	161639074262	5.5	11.3	7.82
17	181839064492	8.0	8.9	8.36
18	151539070140	7.0	8.2	7.48
19	161639076220	7.0	10.1	8.24
20	171739074319	7.5	7.9	7.66
21	171739071174	12.65	12.65	12.65
22	181839065386	12.5	7.9	10.66
23	171739070762	0.0	0.0	0.0
24	181839070291	4.5	10.5	6.9
25	171739071720	0.0	0.0	0.0
26	161639076221	0.0	0.0	0.0
27	16069039979	7.0	0.0	4.2
28	171739064752	13.35	13.35	13.35
29	171739051097	8.0	10.8	9.12
30	161639076851	12.49	12.49	12.49
31	161639069032	10.63	10.63	10.63
32	181839065231	9.0	9.8	9.32
33	161639084292	0.0	0.0	0.0
34	181839066946	9.0	12.0	10.2
35	161639083661	11.09	11.09	11.09
36	171739075357	15.06	15.06	15.06
37	161639078503	13.0	11.0	12.2
38	171739068364	7.5	7.1	7.34
39	171739072634	0.0	0.0	0.0
40	171739066225	12.49	12.49	12.49
41	161639074222	0.0	0.0	0.0
42	161639076834	0.0	0.0	0.0
43	161439058618	0.0	0.0	0.0
44	161539052882	0.0	0.0	0.0
45	181539070542	9.0	7.2	8.28
46	161539076267	0.0	0.0	0.0
47	161539065742	14.85	14.85	14.85
48	20129053237	10.25	10.25	10.25
49	161539072610	2.5	0.0	1.5
50	161439057995	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

Filière: industries pétrochimiques
génie du raffinage

Niveau: Arrêté d'habilitation de

Matière: Génie de La Réaction : Réacteurs Homogènes / Section A / 1

PV de délibération par matière

#	Matricule	Examen	CC	MG
1	181839072338	1.5	0.0	0.9
2	161639074268	0.0	0.0	0.0
3	171739070597	1.0	0.0	0.6
4	181839073100	0.0	0.0	0.0
5	161639076723	1.0	0.75	0.9
6	171739071143	9.0	9.0	9.0
7	171739074366	0.0	0.0	0.0
8	161639069982	0.0	3.6	1.44
9	161639076724	4.2	4.2	4.2
10	171739074200	0.0	0.75	0.3
11	171739074290	0.0	0.0	0.0
12	181839072340	0.0	0.0	0.0
13	21089053634	0.0	0.0	0.0
14	181836049736	10.0	12.75	11.1
15	161639067859	0.0	0.75	0.3
16	161639074262	0.0	0.0	0.0
17	181839064492	0.0	0.0	0.0
18	151539070140	0.0	0.75	0.3
19	161639076220	0.0	0.0	0.0
20	171739074319	0.0	0.75	0.3
21	171739071174	2.0	0.0	1.2
22	181839065386	0.0	0.75	0.3
23	171739070762	0.0	0.0	0.0
24	181839070291	1.5	5.62	3.15
25	171739071720	0.0	0.0	0.0
26	161639076221	0.0	0.0	0.0
27	16069039979	0.0	0.0	0.0
28	171739064752	0.5	4.75	2.2
29	171739051097	0.0	2.06	0.82
30	161639076851	0.75	0.75	0.75
31	161639069032	1.0	0.0	0.6
32	181839065231	0.0	0.75	0.3
33	161639084292	0.0	0.0	0.0
34	181839066946	0.0	6.75	2.7
35	161639083661	0.0	0.0	0.0
36	171739075357	0.0	0.0	0.0
37	161639078503	1.0	5.62	2.85
38	171739068364	0.0	0.0	0.0
39	171739072634	0.0	0.0	0.0
40	171739066225	0.0	0.0	0.0
41	161639074222	0.0	0.0	0.0
42	161639076834	0.0	0.0	0.0
43	161439058618	0.0	0.0	0.0
44	161539052882	0.0	0.0	0.0
45	181539070542	0.0	0.0	0.0
46	161539076267	0.0	0.0	0.0
47	161539065742	0.0	0.0	0.0
48	20129053237	0.0	0.0	0.0
49	161539072610	0.0	0.0	0.0
50	161439057995	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

Filière: industries pétrochimiques
génie du raffinage

Niveau: Arrêté d'habilitation de

Matière: Génie des Séparations / Section A / 1

PV de délibération par matière

#	Matricule	Examen	CC	MG
1	181839072338	1.0	13.5	6.0
2	161639074268	0.0	0.0	0.0
3	171739070597	10.0	17.0	12.8
4	181839073100	1.0	0.0	0.6
5	161639076723	13.0	13.0	13.0
6	171739071143	6.0	16.0	10.0
7	171739074366	10.0	12.0	10.8
8	161639069982	0.0	0.0	0.0
9	161639076724	1.0	0.0	0.6
10	171739074200	10.0	16.0	12.4
11	171739074290	2.0	13.0	6.4
12	181839072340	1.0	8.0	3.8
13	21089053634	0.0	0.0	0.0
14	181836049736	13.0	18.5	15.2
15	161639067859	0.0	9.5	3.8
16	161639074262	4.0	8.5	5.8
17	181839064492	10.0	16.5	12.6
18	151539070140	10.0	13.5	11.4
19	161639076220	10.0	15.0	12.0
20	171739074319	10.5	12.0	11.1
21	171739071174	14.0	13.0	13.6
22	181839065386	3.0	12.5	6.8
23	171739070762	0.0	0.0	0.0
24	181839070291	2.5	13.0	6.7
25	171739071720	0.0	9.5	3.8
26	161639076221	0.0	0.0	0.0
27	16069039979	8.0	7.0	7.6
28	171739064752	13.0	15.0	13.8
29	171739051097	10.0	13.5	11.4
30	161639076851	14.5	12.0	13.5
31	161639069032	2.0	12.0	6.0
32	181839065231	6.0	13.5	9.0
33	161639084292	0.0	0.0	0.0
34	181839066946	7.5	15.0	10.5
35	161639083661	3.0	12.0	6.6
36	171739075357	0.0	0.0	0.0
37	161639078503	7.5	17.0	11.3
38	171739068364	4.5	14.0	8.3
39	171739072634	0.0	0.0	0.0
40	171739066225	10.0	12.5	11.0
41	161639074222	0.0	0.0	0.0
42	161639076834	0.0	0.0	0.0
43	161439058618	0.0	0.0	0.0
44	161539052882	0.0	0.0	0.0
45	181539070542	2.0	14.0	6.8
46	161539076267	0.0	0.0	0.0
47	161539065742	0.0	0.0	0.0
48	20129053237	10.9	10.9	10.9
49	161539072610	2.5	0.0	1.5
50	161439057995	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

Filière: industries pétrochimiques
génie du raffinage

Niveau: Arrêté d'habilitation de

Matière: Industrie des Gaz Industriels / Section A / 1

PV de délibération par matière

#	Matricule	Examen	CC	MG
1	181839072338	4.0	0.0	4.0
2	161639074268	0.0	0.0	0.0
3	171739070597	14.5	0.0	14.5
4	181839073100	6.0	0.0	6.0
5	161639076723	8.0	0.0	8.0
6	171739071143	15.0	0.0	15.0
7	171739074366	4.0	0.0	4.0
8	161639069982	13.0	0.0	13.0
9	161639076724	11.0	0.0	11.0
10	171739074200	4.0	0.0	4.0
11	171739074290	7.0	0.0	7.0
12	181839072340	4.0	0.0	4.0
13	21089053634	0.0	0.0	0.0
14	181836049736	13.5	0.0	13.5
15	161639067859	16.5	0.0	16.5
16	161639074262	11.5	0.0	11.5
17	181839064492	13.0	0.0	13.0
18	151539070140	0.0	0.0	0.0
19	161639076220	16.5	0.0	16.5
20	171739074319	5.0	0.0	5.0
21	171739071174	15.0	0.0	15.0
22	181839065386	7.0	0.0	7.0
23	171739070762	0.0	0.0	0.0
24	181839070291	11.5	0.0	11.5
25	171739071720	0.0	0.0	0.0
26	161639076221	0.0	0.0	0.0
27	16069039979	12.0	0.0	12.0
28	171739064752	11.0	0.0	11.0
29	171739051097	11.5	0.0	11.5
30	161639076851	15.5	0.0	15.5
31	161639069032	10.0	0.0	10.0
32	181839065231	8.0	0.0	8.0
33	161639084292	0.0	0.0	0.0
34	181839066946	9.0	0.0	9.0
35	161639083661	16.0	0.0	16.0
36	171739075357	10.5	0.0	10.5
37	161639078503	15.0	0.0	15.0
38	171739068364	13.0	0.0	13.0
39	171739072634	0.0	0.0	0.0
40	171739066225	14.0	0.0	14.0
41	161639074222	0.0	0.0	0.0
42	161639076834	15.5	0.0	15.5
43	161439058618	0.0	0.0	0.0
44	161539052882	12.0	0.0	12.0
45	181539070542	8.0	0.0	8.0
46	161539076267	0.0	0.0	0.0
47	161539065742	17.5	0.0	17.5
48	20129053237	10.0	0.0	10.0
49	161539072610	9.5	0.0	9.5
50	161439057995	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

Filière: industries pétrochimiques
génie du raffinage

Niveau: Arrêté d'habilitation de

Matière: Phénomènes de Transfert II / Section A / 1

PV de délibération par matière

#	Matricule	Examen	CC	MG
1	181839072338	7.5	10.0	8.5
2	161639074268	0.0	0.0	0.0
3	171739070597	12.0	10.0	11.2
4	181839073100	4.5	5.0	4.7
5	161639076723	13.0	7.0	10.6
6	171739071143	10.0	8.0	9.2
7	171739074366	5.0	5.0	5.0
8	161639069982	0.0	0.0	0.0
9	161639076724	3.0	3.0	3.0
10	171739074200	9.0	9.0	9.0
11	171739074290	0.0	12.0	4.8
12	181839072340	9.5	10.0	9.7
13	21089053634	0.0	8.0	3.2
14	181836049736	17.0	12.0	15.0
15	161639067859	0.0	9.0	3.6
16	161639074262	10.5	12.0	11.1
17	181839064492	13.5	12.0	12.9
18	151539070140	6.0	8.0	6.8
19	161639076220	7.5	6.0	6.9
20	171739074319	2.0	11.0	5.6
21	171739071174	8.0	10.0	8.8
22	181839065386	10.0	12.0	10.8
23	171739070762	0.0	0.0	0.0
24	181839070291	10.5	5.0	8.3
25	171739071720	0.0	0.0	0.0
26	161639076221	0.0	0.0	0.0
27	16069039979	7.0	0.0	4.2
28	171739064752	13.5	7.0	10.9
29	171739051097	12.0	10.0	11.2
30	161639076851	8.5	9.0	8.7
31	161639069032	2.0	10.0	5.2
32	181839065231	10.0	11.0	10.4
33	161639084292	0.0	0.0	0.0
34	181839066946	10.5	14.0	11.9
35	161639083661	2.5	0.0	1.5
36	171739075357	0.0	0.0	0.0
37	161639078503	9.5	5.0	7.7
38	171739068364	0.0	9.0	3.6
39	171739072634	0.0	0.0	0.0
40	171739066225	9.0	8.0	8.6
41	161639074222	0.0	0.0	0.0
42	161639076834	0.0	0.0	0.0
43	161439058618	0.0	0.0	0.0
44	161539052882	0.0	0.0	0.0
45	181539070542	6.0	7.0	6.4
46	161539076267	0.0	0.0	0.0
47	161539065742	0.0	0.0	0.0
48	20129053237	0.0	0.0	0.0
49	161539072610	7.5	0.0	4.5
50	161439057995	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

Filière: industries pétrochimiques
génie du raffinage

Niveau: Arrêté d'habilitation de

Matière: Sécurité des Procédés Industriels / Section A / 1

PV de délibération par matière

#	Matricule	Examen	CC	MG
1	181839072338	0.0	0.0	0.0
2	161639074268	0.0	0.0	0.0
3	171739070597	15.0	0.0	15.0
4	181839073100	0.0	0.0	0.0
5	161639076723	11.0	0.0	11.0
6	171739071143	5.0	0.0	5.0
7	171739074366	4.0	0.0	4.0
8	161639069982	20.0	0.0	20.0
9	161639076724	9.5	0.0	9.5
10	171739074200	4.0	0.0	4.0
11	171739074290	6.5	0.0	6.5
12	181839072340	3.0	0.0	3.0
13	21089053634	0.0	0.0	0.0
14	181836049736	14.0	0.0	14.0
15	161639067859	8.0	0.0	8.0
16	161639074262	10.0	0.0	10.0
17	181839064492	10.5	0.0	10.5
18	151539070140	10.0	0.0	10.0
19	161639076220	16.0	0.0	16.0
20	171739074319	10.0	0.0	10.0
21	171739071174	19.0	0.0	19.0
22	181839065386	12.0	0.0	12.0
23	171739070762	0.0	0.0	0.0
24	181839070291	6.0	0.0	6.0
25	171739071720	0.0	0.0	0.0
26	161639076221	0.0	0.0	0.0
27	16069039979	15.0	0.0	15.0
28	171739064752	9.0	0.0	9.0
29	171739051097	14.0	0.0	14.0
30	161639076851	13.0	0.0	13.0
31	161639069032	12.0	0.0	12.0
32	181839065231	10.0	0.0	10.0
33	161639084292	0.0	0.0	0.0
34	181839066946	12.0	0.0	12.0
35	161639083661	12.0	0.0	12.0
36	171739075357	0.0	0.0	0.0
37	161639078503	12.0	0.0	12.0
38	171739068364	11.0	0.0	11.0
39	171739072634	0.0	0.0	0.0
40	171739066225	11.5	0.0	11.5
41	161639074222	0.0	0.0	0.0
42	161639076834	11.0	0.0	11.0
43	161439058618	0.0	0.0	0.0
44	161539052882	13.0	0.0	13.0
45	181539070542	11.5	0.0	11.5
46	161539076267	0.0	0.0	0.0
47	161539065742	11.5	0.0	11.5
48	20129053237	15.0	0.0	15.0
49	161539072610	11.0	0.0	11.0
50	161439057995	11.5	0.0	11.5

Signature de l'enseignant:

Le:

2021/2022

Filière: industries pétrochimiques
génie du raffinage

Niveau: Arrêté d'habilitation de

Matière: Thermodynamique : Application à L'industrie Pétrolière / Section A / 1

PV de délibération par matière

#	Matricule	Examen	CC	MG
1	181839072338	1.0	6.0	3.0
2	161639074268	0.0	0.0	0.0
3	171739070597	2.0	10.0	5.2
4	181839073100	0.0	8.0	3.2
5	161639076723	3.0	10.0	5.8
6	171739071143	4.0	7.0	5.2
7	171739074366	3.0	8.0	5.0
8	161639069982	0.0	0.0	0.0
9	161639076724	2.0	0.0	1.2
10	171739074200	4.0	8.0	5.6
11	171739074290	5.0	7.0	5.8
12	181839072340	1.0	5.0	2.6
13	21089053634	0.0	0.0	0.0
14	181836049736	15.0	15.0	15.0
15	161639067859	1.0	10.0	4.6
16	161639074262	1.0	9.0	4.2
17	181839064492	3.0	10.0	5.8
18	151539070140	3.0	10.0	5.8
19	161639076220	4.0	6.0	4.8
20	171739074319	3.0	5.0	3.8
21	171739071174	5.0	10.0	7.0
22	181839065386	4.0	12.0	7.2
23	171739070762	0.0	0.0	0.0
24	181839070291	3.0	9.0	5.4
25	171739071720	0.0	0.0	0.0
26	161639076221	0.0	0.0	0.0
27	16069039979	5.0	0.0	3.0
28	171739064752	5.0	14.0	8.6
29	171739051097	2.0	10.0	5.2
30	161639076851	5.0	10.0	7.0
31	161639069032	7.15	7.15	7.15
32	181839065231	4.0	8.0	5.6
33	161639084292	0.0	0.0	0.0
34	181839066946	0.0	6.0	2.4
35	161639083661	2.0	0.0	1.2
36	171739075357	0.0	0.0	0.0
37	161639078503	5.0	9.0	6.6
38	171739068364	4.0	7.0	5.2
39	171739072634	0.0	0.0	0.0
40	171739066225	5.0	6.0	5.4
41	161639074222	0.0	0.0	0.0
42	161639076834	8.5	8.5	8.5
43	161439058618	0.0	0.0	0.0
44	161539052882	0.0	0.0	0.0
45	181539070542	2.0	5.0	3.2
46	161539076267	0.0	0.0	0.0
47	161539065742	0.0	0.0	0.0
48	20129053237	0.0	0.0	0.0
49	161539072610	3.0	0.0	1.8
50	161439057995	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

Filière: industries pétrochimiques
génie du raffinage

Niveau: Arrêté d'habilitation de

Matière: TP Réacteurs Génie des Séparations / Section A / 1

PV de délibération par matière

#	Matricule	Examen	CC	MG
1	181839072338	0.0	12.25	12.25
2	161639074268	0.0	0.0	0.0
3	171739070597	0.0	13.63	13.63
4	181839073100	0.0	0.0	0.0
5	161639076723	0.0	14.38	14.38
6	171739071143	0.0	14.31	14.31
7	171739074366	0.0	13.88	13.88
8	161639069982	0.0	10.13	10.13
9	161639076724	0.0	14.0	14.0
10	171739074200	0.0	13.88	13.88
11	171739074290	0.0	13.88	13.88
12	181839072340	0.0	12.25	12.25
13	21089053634	0.0	13.88	13.88
14	181836049736	0.0	13.63	13.63
15	161639067859	0.0	10.13	10.13
16	161639074262	0.0	14.38	14.38
17	181839064492	0.0	11.88	11.88
18	151539070140	0.0	13.62	13.62
19	161639076220	0.0	11.19	11.19
20	171739074319	0.0	11.88	11.88
21	171739071174	0.0	14.69	14.69
22	181839065386	0.0	11.88	11.88
23	171739070762	0.0	0.0	0.0
24	181839070291	0.0	13.38	13.38
25	171739071720	0.0	0.0	0.0
26	161639076221	0.0	0.0	0.0
27	16069039979	0.0	13.0	13.0
28	171739064752	0.0	14.0	14.0
29	171739051097	0.0	13.88	13.88
30	161639076851	0.0	12.94	12.94
31	161639069032	0.0	13.0	13.0
32	181839065231	0.0	11.88	11.88
33	161639084292	0.0	0.0	0.0
34	181839066946	0.0	13.38	13.38
35	161639083661	0.0	0.0	0.0
36	171739075357	0.0	13.75	13.75
37	161639078503	0.0	13.38	13.38
38	171739068364	0.0	12.69	12.69
39	171739072634	0.0	0.0	0.0
40	171739066225	0.0	12.56	12.56
41	161639074222	0.0	0.0	0.0
42	161639076834	0.0	14.5	14.5
43	161439058618	0.0	0.0	0.0
44	161539052882	0.0	0.0	0.0
45	181539070542	0.0	13.63	13.63
46	161539076267	0.0	0.0	0.0
47	161539065742	0.0	14.75	14.75
48	20129053237	0.0	13.5	13.5
49	161539072610	0.0	0.0	0.0
50	161439057995	0.0	14.75	14.75

Signature de l'enseignant:

Le: