

## NOMBRES - Curiosités, théorie et usages

# SOMMES des CHIFFRES

### Nombres tels que: $n = k$ fois somme des chiffres

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#### Définition

Un nombre de Harshad est un nombre entier divisible par le somme de ses chiffres. Le nombre est égal à  $k$  fois la somme de ses chiffres.

Quels sont les nombres  $k$  fois somme des chiffres ?

**Exemple** Seul le nombre 45 est cinq fois la somme de ses chiffres. Avec sept fois la somme des chiffres, on trouve: 21, 42, 63 et 84

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#### Table des 144 valeurs de $k$ pour $n$ jusqu'à 1 000

**Exemple:** avec  $k = 3$ , seul le nombre 27 est trois fois somme de ses chiffres :  $3 \times (2 + 7) = 27$ .

k	n				
2	18				
3	27				
4	12	24	36	48	
5	45				
6	54				
7	21	42	63	84	
8	72				
9	81				
11	198				
12	108				
13	117	156	195		

14	126				
15	135				
16	144	192	288		
17	153				
18	162				
19	114	133	152	171	209
	228	247	266	285	399
21	378				
22	132	264	396		
23	207				
24	216				
25	225	375			
26	234	468			
27	243	486			
28	112	224	252	308	336
	364	392	448	476	588
29	261	372	465	558	
32	576				
33	594				
34	102	204	306	408	
35	315				
36	324	648			
37	111	222	333	407	444
	481	518	555	592	629
	666	777	888	999	
38	342	684			
39	351				
41	738				
42	756				
43	516	645	774		
44	792				
45	405				
46	322	414	506	552	644
	736	782	828	874	966
47	423	846			
48	432	864			
49	441	735	882		

51	918				
52	312	624	936		
53	954				
54	972				
55	605	715	825	935	
56	504				
57	513				
58	522				
59	531				
61	732	915			
64	512	704	832		
67	201	402	603	804	
68	612				
69	621				
73	511	803			
76	912				
78	702				
79	711				
82	902				
89	801				

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**Table des nombres de Harshad de 1 à 900 avec le facteur multiplicatif de la somme des chiffres, dans l'ordre croissant de ce facteur**

**Exemple:** avec 48 qui est divisible par  $4 + 8 = 12$  et le quotient est 4.

/	=	1	( / )
18	=	2	( 1 + 8 )
27	=	3	( 2 + 7 )
12	=	4	( 1 + 2 )
24	=	4	( 2 + 4 )
36	=	4	( 3 + 6 )
48	=	4	( 4 + 8 )
45	=	5	( 4 + 5 )
54	=	6	( 5 + 4 )
21	=	7	( 2 + 1 )
42	=	7	( 4 + 2 )
63	=	7	( 6 + 3 )
84	=	7	( 8 + 4 )
72	=	8	( 7 + 2 )
81	=	9	( 8 + 1 )
10, 20...	=	10	( 1 + 0 )

198	=	11	(	1	+	9	+	8	)
108	=	12	(	1	+	0	+	8	)
195	=	13	(	1	+	9	+	5	)
156	=	13	(	1	+	5	+	6	)
117	=	13	(	1	+	1	+	7	)
126	=	14	(	1	+	2	+	6	)
135	=	15	(	1	+	3	+	5	)
192	=	16	(	1	+	9	+	2	)
144	=	16	(	1	+	4	+	4	)
288	=	16	(	2	+	8	+	8	)
153	=	17	(	1	+	5	+	3	)
162	=	18	(	1	+	6	+	2	)
190	=	19	(	1	+	9	+	0	)
171	=	19	(	1	+	7	+	1	)
152	=	19	(	1	+	5	+	2	)
133	=	19	(	1	+	3	+	3	)
114	=	19	(	1	+	1	+	4	)
285	=	19	(	2	+	8	+	5	)
266	=	19	(	2	+	6	+	6	)
247	=	19	(	2	+	4	+	7	)
228	=	19	(	2	+	2	+	8	)
209	=	19	(	2	+	0	+	9	)
399	=	19	(	3	+	9	+	9	)
180	=	20	(	1	+	8	+	0	)
378	=	21	(	3	+	7	+	8	)
132	=	22	(	1	+	3	+	2	)
264	=	22	(	2	+	6	+	4	)
396	=	22	(	3	+	9	+	6	)
207	=	23	(	2	+	0	+	7	)
216	=	24	(	2	+	1	+	6	)
150	=	25	(	1	+	5	+	0	)
225	=	25	(	2	+	2	+	5	)
375	=	25	(	3	+	7	+	5	)
234	=	26	(	2	+	3	+	4	)
468	=	26	(	4	+	6	+	8	)
243	=	27	(	2	+	4	+	3	)
486	=	27	(	4	+	8	+	6	)
140	=	28	(	1	+	4	+	0	)
280	=	28	(	2	+	8	+	0	)
112	=	28	(	1	+	1	+	2	)
252	=	28	(	2	+	5	+	2	)
392	=	28	(	3	+	9	+	2	)
224	=	28	(	2	+	2	+	4	)
364	=	28	(	3	+	6	+	4	)
336	=	28	(	3	+	3	+	6	)
476	=	28	(	4	+	7	+	6	)
308	=	28	(	3	+	0	+	8	)
448	=	28	(	4	+	4	+	8	)
588	=	28	(	5	+	8	+	8	)
261	=	29	(	2	+	6	+	1	)
270	=	30	(	2	+	7	+	0	)
372	=	31	(	3	+	7	+	2	)
465	=	31	(	4	+	6	+	5	)
558	=	31	(	5	+	5	+	8	)
576	=	32	(	5	+	7	+	6	)

594	=	33	(	5	+	9	+	4	)
102	=	34	(	1	+	0	+	2	)
204	=	34	(	2	+	0	+	4	)
306	=	34	(	3	+	0	+	6	)
408	=	34	(	4	+	0	+	8	)
315	=	35	(	3	+	1	+	5	)
324	=	36	(	3	+	2	+	4	)
648	=	36	(	6	+	4	+	8	)
370	=	37	(	3	+	7	+	0	)
111	=	37	(	1	+	1	+	1	)
481	=	37	(	4	+	8	+	1	)
222	=	37	(	2	+	2	+	2	)
592	=	37	(	5	+	9	+	2	)
333	=	37	(	3	+	3	+	3	)
444	=	37	(	4	+	4	+	4	)
555	=	37	(	5	+	5	+	5	)
666	=	37	(	6	+	6	+	6	)
407	=	37	(	4	+	0	+	7	)
777	=	37	(	7	+	7	+	7	)
518	=	37	(	5	+	1	+	8	)
888	=	37	(	8	+	8	+	8	)
629	=	37	(	6	+	2	+	9	)
999	=	37	(	9	+	9	+	9	)
342	=	38	(	3	+	4	+	2	)
684	=	38	(	6	+	8	+	4	)
351	=	39	(	3	+	5	+	1	)
120	=	40	(	1	+	2	+	0	)
240	=	40	(	2	+	4	+	0	)
360	=	40	(	3	+	6	+	0	)
480	=	40	(	4	+	8	+	0	)
738	=	41	(	7	+	3	+	8	)
756	=	42	(	7	+	5	+	6	)
774	=	43	(	7	+	7	+	4	)
645	=	43	(	6	+	4	+	5	)
516	=	43	(	5	+	1	+	6	)
792	=	44	(	7	+	9	+	2	)
405	=	45	(	4	+	0	+	5	)
230	=	46	(	2	+	3	+	0	)
460	=	46	(	4	+	6	+	0	)
690	=	46	(	6	+	9	+	0	)
322	=	46	(	3	+	2	+	2	)
552	=	46	(	5	+	5	+	2	)
782	=	46	(	7	+	8	+	2	)
414	=	46	(	4	+	1	+	4	)
644	=	46	(	6	+	4	+	4	)
874	=	46	(	8	+	7	+	4	)
506	=	46	(	5	+	0	+	6	)
736	=	46	(	7	+	3	+	6	)
966	=	46	(	9	+	6	+	6	)
828	=	46	(	8	+	2	+	8	)
423	=	47	(	4	+	2	+	3	)
846	=	47	(	8	+	4	+	6	)
432	=	48	(	4	+	3	+	2	)
864	=	48	(	8	+	6	+	4	)
441	=	49	(	4	+	4	+	1	)

882	=	49	(	8	+	8	+	2	)
735	=	49	(	7	+	3	+	5	)
450	=	50	(	4	+	5	+	0	)
918	=	51	(	9	+	1	+	8	)
780	=	52	(	7	+	8	+	0	)
312	=	52	(	3	+	1	+	2	)
624	=	52	(	6	+	2	+	4	)
936	=	52	(	9	+	3	+	6	)
954	=	53	(	9	+	5	+	4	)
972	=	54	(	9	+	7	+	2	)
110	=	55	(	1	+	1	+	0	)
220	=	55	(	2	+	2	+	0	)
330	=	55	(	3	+	3	+	0	)
440	=	55	(	4	+	4	+	0	)
550	=	55	(	5	+	5	+	0	)
660	=	55	(	6	+	6	+	0	)
770	=	55	(	7	+	7	+	0	)
880	=	55	(	8	+	8	+	0	)
990	=	55	(	9	+	9	+	0	)
605	=	55	(	6	+	0	+	5	)
715	=	55	(	7	+	1	+	5	)
825	=	55	(	8	+	2	+	5	)
935	=	55	(	9	+	3	+	5	)
504	=	56	(	5	+	0	+	4	)
513	=	57	(	5	+	1	+	3	)
870	=	58	(	8	+	7	+	0	)
522	=	58	(	5	+	2	+	2	)
531	=	59	(	5	+	3	+	1	)
540	=	60	(	5	+	4	+	0	)
732	=	61	(	7	+	3	+	2	)
915	=	61	(	9	+	1	+	5	)
320	=	64	(	3	+	2	+	0	)
640	=	64	(	6	+	4	+	0	)
960	=	64	(	9	+	6	+	0	)
512	=	64	(	5	+	1	+	2	)
832	=	64	(	8	+	3	+	2	)
704	=	64	(	7	+	0	+	4	)
201	=	67	(	2	+	0	+	1	)
402	=	67	(	4	+	0	+	2	)
603	=	67	(	6	+	0	+	3	)
804	=	67	(	8	+	0	+	4	)
612	=	68	(	6	+	1	+	2	)
621	=	69	(	6	+	2	+	1	)
210	=	70	(	2	+	1	+	0	)
420	=	70	(	4	+	2	+	0	)
630	=	70	(	6	+	3	+	0	)
840	=	70	(	8	+	4	+	0	)
730	=	73	(	7	+	3	+	0	)
511	=	73	(	5	+	1	+	1	)
803	=	73	(	8	+	0	+	3	)
912	=	76	(	9	+	1	+	2	)
702	=	78	(	7	+	0	+	2	)
711	=	79	(	7	+	1	+	1	)
720	=	80	(	7	+	2	+	0	)
410	=	82	(	4	+	1	+	0	)

820	=	82	(	8	+	2	+	0	)
902	=	82	(	9	+	0	+	2	)
510	=	85	(	5	+	1	+	0	)
801	=	89	(	8	+	0	+	1	)
810	=	90	(	8	+	1	+	0	)
910	=	91	(	9	+	1	+	0	)
100	=	100	(	1	+	0	+	0	)
200	=	100	(	2	+	0	+	0	)
300	=	100	(	3	+	0	+	0	)
400	=	100	(	4	+	0	+	0	)
500	=	100	(	5	+	0	+	0	)
600	=	100	(	6	+	0	+	0	)
700	=	100	(	7	+	0	+	0	)
800	=	100	(	8	+	0	+	0	)
900	=	100	(	9	+	0	+	0	)

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### Table des 411 valeurs de k pour n jusqu'à 10 000

Exemple: 2, 9, 18 => 2 x 9 = 18 et 9 = 1 + 8

2, 9, 18	19, 8, 152	28, 17, 476	37, 27, 999
3, 9, 27	19, 9, 171	28, 21, 588	38, 9, 342
4, 3, 12	19, 11, 209	29, 9, 261	38, 18, 684
4, 6, 24	19, 12, 228	31, 12, 372	39, 9, 351
4, 9, 36	19, 13, 247	31, 15, 465	41, 18, 738
4, 12, 48	19, 14, 266	31, 18, 558	42, 18, 756
5, 9, 45	19, 15, 285	32, 18, 576	43, 12, 516
6, 9, 54	19, 21, 399	33, 18, 594	43, 15, 645
7, 3, 21	21, 18, 378	34, 3, 102	43, 18, 774
7, 6, 42	22, 6, 132	34, 6, 204	44, 18, 792
7, 9, 63	22, 12, 264	34, 9, 306	45, 9, 405
7, 12, 84	22, 18, 396	34, 12, 408	46, 7, 322
8, 9, 72	23, 9, 207	35, 9, 315	46, 9, 414
9, 9, 81	24, 9, 216	36, 9, 324	46, 11, 506
11, 18, 198	25, 9, 225	36, 18, 648	46, 12, 552
12, 9, 108	25, 15, 375	37, 3, 111	46, 14, 644
13, 9, 117	26, 9, 234	37, 6, 222	46, 16, 736
13, 12, 156	26, 18, 468	37, 9, 333	46, 17, 782
13, 15, 195	27, 9, 243	37, 11, 407	46, 18, 828
14, 9, 126	27, 18, 486	37, 12, 444	46, 19, 874
15, 9, 135	28, 4, 112	37, 13, 481	46, 21, 966
16, 9, 144	28, 8, 224	37, 14, 518	47, 9, 423
16, 12, 192	28, 9, 252	37, 15, 555	47, 18, 846
16, 18, 288	28, 11, 308	37, 16, 592	48, 9, 432
17, 9, 153	28, 12, 336	37, 17, 629	48, 18, 864
18, 9, 162	28, 13, 364	37, 18, 666	49, 9, 441
19, 6, 114	28, 14, 392	37, 21, 777	49, 15, 735
19, 7, 133	28, 16, 448	37, 24, 888	49, 18, 882

51, 18, 918	82, 14, 1148	109, 17, 1853	136, 12, 1632
52, 6, 312	82, 17, 1394	109, 18, 1962	136, 14, 1904
52, 12, 624	82, 18, 1476	109, 21, 2289	136, 16, 2176
52, 18, 936	82, 19, 1558	109, 22, 2398	136, 18, 2448
53, 18, 954	82, 23, 1886	111, 27, 2997	136, 19, 2584
54, 18, 972	82, 24, 1968	112, 9, 1008	136, 21, 2856
55, 11, 605	83, 18, 1494	112, 12, 1344	136, 22, 2992
55, 13, 715	85, 15, 1275	112, 24, 2688	137, 9, 1233
55, 15, 825	85, 21, 1785	113, 9, 1017	137, 18, 2466
55, 17, 935	86, 18, 1548	114, 9, 1026	137, 27, 3699
56, 9, 504	87, 18, 1566	115, 9, 1035	138, 9, 1242
57, 9, 513	88, 12, 1056	115, 15, 1725	138, 18, 2484
58, 9, 522	88, 18, 1584	116, 9, 1044	139, 9, 1251
59, 9, 531	88, 21, 1848	116, 18, 2088	139, 15, 2085
61, 12, 732	89, 9, 801	117, 9, 1053	139, 21, 2919
61, 15, 915	91, 12, 1092	118, 9, 1062	141, 18, 2538
61, 18, 1098	91, 13, 1183	118, 12, 1416	142, 12, 1704
64, 8, 512	91, 14, 1274	118, 13, 1534	142, 18, 2556
64, 11, 704	91, 15, 1365	118, 14, 1652	142, 21, 2982
64, 13, 832	91, 16, 1456	118, 21, 2478	143, 18, 2574
64, 17, 1088	91, 17, 1547	118, 22, 2596	144, 18, 2592
66, 18, 1188	91, 18, 1638	119, 9, 1071	144, 27, 3888
67, 3, 201	91, 19, 1729	121, 12, 1452	145, 7, 1015
67, 6, 402	92, 18, 1656	121, 15, 1815	145, 9, 1305
67, 9, 603	93, 18, 1674	121, 18, 2178	145, 15, 2175
67, 12, 804	94, 12, 1128	122, 18, 2196	145, 17, 2465
68, 9, 612	94, 18, 1692	123, 9, 1107	145, 19, 2755
69, 9, 621	94, 21, 1974	124, 9, 1116	146, 9, 1314
71, 18, 1278	96, 18, 1728	124, 24, 2976	146, 18, 2628
72, 18, 1296	97, 12, 1164	125, 9, 1125	147, 9, 1323
73, 7, 511	97, 15, 1455	126, 9, 1134	147, 18, 2646
73, 11, 803	97, 18, 1746	126, 18, 2268	147, 27, 3969
73, 15, 1095	98, 18, 1764	127, 8, 1016	148, 9, 1332
73, 16, 1168	99, 18, 1782	127, 9, 1143	148, 18, 2664
73, 19, 1387	101, 18, 1818	127, 12, 1524	148, 27, 3996
73, 23, 1679	102, 18, 1836	127, 13, 1651	149, 9, 1341
73, 26, 1898	103, 12, 1236	127, 15, 1905	149, 18, 2682
74, 27, 1998	103, 15, 1545	127, 17, 2159	151, 12, 1812
76, 12, 912	103, 18, 1854	127, 18, 2286	151, 15, 2265
76, 18, 1368	104, 18, 1872	127, 21, 2667	151, 18, 2718
76, 21, 1596	106, 12, 1272	127, 22, 2794	152, 18, 2736
77, 18, 1386	106, 18, 1908	128, 9, 1152	153, 18, 2754
78, 9, 702	107, 18, 1926	129, 9, 1161	154, 8, 1232
79, 9, 711	107, 27, 2889	131, 18, 2358	154, 14, 2156
79, 15, 1185	108, 18, 1944	132, 18, 2376	154, 16, 2464
79, 21, 1659	109, 12, 1308	133, 18, 2394	154, 17, 2618
79, 24, 1896	109, 13, 1417	133, 21, 2793	154, 18, 2772
81, 18, 1458	109, 14, 1526	134, 9, 1206	154, 19, 2926
82, 11, 902	109, 15, 1635	135, 9, 1215	154, 22, 3388
82, 13, 1066	109, 16, 1744	136, 9, 1224	154, 24, 3696

156, 9, 1404	166, 24, 3984	177, 18, 3186	187, 15, 2805
156, 18, 2808	167, 9, 1503	177, 27, 4779	187, 18, 3366
157, 9, 1413	168, 9, 1512	178, 9, 1602	187, 21, 3927
157, 15, 2355	169, 6, 1014	178, 12, 2136	187, 24, 4488
157, 18, 2826	169, 9, 1521	178, 21, 3738	188, 18, 3384
157, 21, 3297	169, 12, 2028	179, 9, 1611	189, 9, 1701
157, 24, 3768	169, 15, 2535	181, 12, 2172	191, 18, 3438
158, 9, 1422	169, 21, 3549	181, 13, 2353	192, 18, 3456
158, 18, 2844	171, 18, 3078	181, 14, 2534	193, 12, 2316
159, 9, 1431	172, 6, 1032	181, 15, 2715	193, 18, 3474
159, 18, 2862	172, 7, 1204	181, 17, 3077	194, 18, 3492
162, 18, 2916	172, 12, 2064	181, 18, 3258	196, 12, 2352
163, 7, 1141	172, 13, 2236	181, 19, 3439	196, 18, 3528
163, 8, 1304	172, 14, 2408	181, 22, 3982	197, 18, 3546
163, 13, 2119	172, 16, 2752	181, 27, 4887	198, 18, 3564
163, 14, 2282	172, 17, 2924	182, 18, 3276	199, 16, 3184
163, 15, 2445	172, 18, 3096	183, 18, 3294	199, 17, 3383
163, 16, 2608	172, 19, 3268	184, 6, 1104	199, 18, 3582
163, 17, 2771	172, 22, 3784	184, 12, 2208	199, 19, 3781
163, 18, 2934	172, 23, 3956	184, 21, 3864	199, 21, 4179
163, 19, 3097	172, 29, 4988	184, 27, 4968	199, 22, 4378
163, 22, 3586	174, 27, 4698	185, 27, 4995	199, 23, 4577
163, 23, 3749	175, 15, 2625	186, 18, 3348	199, 24, 4776
164, 18, 2952	175, 21, 3675	187, 6, 1122	199, 25, 4975
166, 21, 3486	176, 18, 3168	187, 12, 2244	

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**Table des 146 nombres dont le produit est égal à k fois la somme des chiffres pour n jusqu'à 1000 et k jusqu'à 20**

**Exemple: [44, 2, 8, 16] => n = 44, k = 2, s = 8 et p = 16 avec ks = p = 16**

[1, 1, 1, 1], [2, 1, 2, 2], [3, 1, 3, 3], [4, 1, 4, 4], [5, 1, 5, 5], [6, 1, 6, 6], [7, 1, 7, 7], [8, 1, 8, 8], [9, 1, 9, 9], [22, 1, 4, 4], [36, 2, 9, 18], [44, 2, 8, 16], [63, 2, 9, 18], [66, 3, 12, 36], [88, 4, 16, 64], [123, 1, 6, 6], [132, 1, 6, 6], [138, 2, 12, 24], [145, 2, 10, 20], [154, 2, 10, 20], [159, 3, 15, 45], [167, 3, 14, 42], [176, 3, 14, 42], [183, 2, 12, 24], [189, 4, 18, 72], [195, 3, 15, 45], [198, 4, 18, 72], [213, 1, 6, 6], [224, 2, 8, 16], [231, 1, 6, 6], [235, 3, 10, 30], [242, 2, 8, 16], [246, 4, 12, 48], [253, 3, 10, 30], [257, 5, 14, 70], [264, 4, 12, 48], [268, 6, 16, 96], [275, 5, 14, 70], [279, 7, 18, 126], [286, 6, 16, 96], [297, 7, 18, 126], [312, 1, 6, 6], [318, 2, 12, 24], [321, 1, 6, 6], [325, 3, 10, 30], [333, 3, 9, 27], [345, 5, 12, 60], [347, 6, 14, 84], [352, 3, 10, 30], [354, 5, 12, 60], [357, 7, 15, 105], [369, 9, 18, 162], [374, 6, 14, 84], [375, 7, 15, 105], [381, 2, 12, 24], [396, 9, 18, 162], [415, 2, 10, 20], [422, 2, 8, 16], [426, 4, 12, 48], [435, 5, 12, 60], [437, 6, 14, 84], [448, 8, 16, 128], [451, 2, 10, 20], [453, 5, 12, 60], [456, 8, 15, 120], [459, 10, 18, 180], [462, 4, 12, 48], [465, 8, 15, 120], [466, 9, 16, 144], [473, 6,

14, 84], [484, 8, 16, 128], [495, 10, 18, 180], [514, 2, 10, 20], [519, 3, 15, 45], [523, 3, 10, 30], [527, 5, 14, 70], [532, 3, 10, 30], [534, 5, 12, 60], [537, 7, 15, 105], [541, 2, 10, 20], [543, 5, 12, 60], [546, 8, 15, 120], [549, 10, 18, 180], [564, 8, 15, 120], [572, 5, 14, 70], [573, 7, 15, 105], [578, 14, 20, 280], [579, 15, 21, 315], [587, 14, 20, 280], [591, 3, 15, 45], [594, 10, 18, 180], [597, 15, 21, 315], [617, 3, 14, 42], [624, 4, 12, 48], [628, 6, 16, 96], [639, 9, 18, 162], [642, 4, 12, 48], [645, 8, 15, 120], [646, 9, 16, 144], [654, 8, 15, 120], [664, 9, 16, 144], [666, 12, 18, 216], [671, 3, 14, 42], [678, 16, 21, 336], [682, 6, 16, 96], [687, 16, 21, 336], [693, 9, 18, 162], [716, 3, 14, 42], [725, 5, 14, 70], [729, 7, 18, 126], [734, 6, 14, 84], [735, 7, 15, 105], [743, 6, 14, 84], [752, 5, 14, 70], [753, 7, 15, 105], [758, 14, 20, 280], [759, 15, 21, 315], [761, 3, 14, 42], [768, 16, 21, 336], [785, 14, 20, 280], [786, 16, 21, 336], [792, 7, 18, 126], [795, 15, 21, 315], [813, 2, 12, 24], [819, 4, 18, 72], [826, 6, 16, 96], [831, 2, 12, 24], [844, 8, 16, 128], [857, 14, 20, 280], [862, 6, 16, 96], [867, 16, 21, 336], [875, 14, 20, 280], [876, 16, 21, 336], [891, 4, 18, 72], [915, 3, 15, 45], [918, 4, 18, 72], [927, 7, 18, 126], [936, 9, 18, 162], [945, 10, 18, 180], [951, 3, 15, 45], [954, 10, 18, 180], [957, 15, 21, 315], [963, 9, 18, 162], [972, 7, 18, 126], [975, 15, 21, 315], [981, 4, 18, 72]

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