

Abundant Numbers

n , being a positive integer, the sum of all the positive divisors of n is shown as $\sigma(n)$.

If,

$\sigma(n) > 2n$ then, n is an abundant number.



Example:

Let us consider the number 12

The set of divisors = {1, 2, 3, 4, 6, 12}

Sum of the members of the divisors set, $\sigma(n)$:

$$\sigma(n) = 1 + 2 + 3 + 4 + 6 + 12 = 28$$

$$2n = 2 * 12 = 24$$

$$\sigma(n) > 2n$$

$28 > 24$ provides, therefore 12 is an abundant number.

Let us consider the number 16

The set of divisors = {1, 2, 4, 8, 16 }

Sum of the members of the divisors set, $\sigma(n)$:

$$\sigma(n) = 1 + 2 + 4 + 8 + 16 = 31$$

$$2n = 2 * 16 = 32$$

Since the figure 31 is not greater than the figure 32, 16 is not an abundant number.

Abundant numbers 1 thru 286 are shown in the below list.

n	Divisors	$\sigma(n)$
12	1, 2, 3, 4, 6, 12	28
18	1, 2, 3, 6, 9, 18	39
20	1, 2, 4, 5, 10, 20	42
24	1, 2, 3, 4, 6, 8, 12, 24	60
30	1, 2, 3, 5, 6, 10, 15, 30	72
36	1, 2, 3, 4, 6, 9, 12, 18, 36	91
40	1, 2, 4, 5, 8, 10, 20, 40	90
42	1, 2, 3, 6, 7, 14, 21, 42	96

48	1, 2, 3, 4, 6, 8, 12, 16, 24, 48	124
54	1, 2, 3, 6, 9, 18, 27, 54	120
56	1, 2, 4, 7, 8, 14, 28, 56	120
60	1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60	168
66	1, 2, 3, 6, 11, 22, 33, 66	144
70	1, 2, 5, 7, 10, 14, 35, 70	144
72	1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72	195
78	1, 2, 3, 6, 13, 26, 39, 78	168
80	1, 2, 4, 5, 8, 10, 16, 20, 40, 80	186
84	1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84	224
88	1, 2, 4, 8, 11, 22, 44, 88	180
90	1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45, 90	234
96	1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 96	252
100	1, 2, 4, 5, 10, 20, 25, 50, 100	217
102	1, 2, 3, 6, 17, 34, 51, 102	216
104	1, 2, 4, 8, 13, 26, 52, 104	210
108	1, 2, 3, 4, 6, 9, 12, 18, 27, 36, 54, 108	280
112	1, 2, 4, 7, 8, 14, 16, 28, 56, 112	248
114	1, 2, 3, 6, 19, 38, 57, 114	240
120	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 24, 30, 40, 60, 120	360
126	1, 2, 3, 6, 7, 9, 14, 18, 21, 42, 63, 126	312
132	1, 2, 3, 4, 6, 11, 12, 22, 33, 44, 66, 132	336
138	1, 2, 3, 6, 23, 46, 69, 138	288
140	1, 2, 4, 5, 7, 10, 14, 20, 28, 35, 70, 140	336
144	1, 2, 3, 4, 6, 8, 9, 12, 16, 18, 24, 36, 48, 72, 144	403
150	1, 2, 3, 5, 6, 10, 15, 25, 30, 50, 75, 150	372
156	1, 2, 3, 4, 6, 12, 13, 26, 39, 52, 78, 156	392
160	1, 2, 4, 5, 8, 10, 16, 20, 32, 40, 80, 160	378
162	1, 2, 3, 6, 9, 18, 27, 54, 81, 162	363
168	1, 2, 3, 4, 6, 7, 8, 12, 14, 21, 24, 28, 42, 56, 84, 168	480
174	1, 2, 3, 6, 29, 58, 87, 174	360
176	1, 2, 4, 8, 11, 16, 22, 44, 88, 176	372
	1, 2, 3, 4, 5, 6, 9, 10, 12, 15, 18, 20, 30, 36, 45, 60, 90,	
180	180	546
186	1, 2, 3, 6, 31, 62, 93, 186	384
192	1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 64, 96, 192	508
196	1, 2, 4, 7, 14, 28, 49, 98, 196	399
198	1, 2, 3, 6, 9, 11, 18, 22, 33, 66, 99, 198	468

200	1, 2, 4, 5, 8, 10, 20, 25, 40, 50, 100, 200	465
204	1, 2, 3, 4, 6, 12, 17, 34, 51, 68, 102, 204	504
208	1, 2, 4, 8, 13, 16, 26, 52, 104, 208	434
210	1, 2, 3, 5, 6, 7, 10, 14, 15, 21, 30, 35, 42, 70, 105, 210	576
216	1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 27, 36, 54, 72, 108, 216	600
220	1, 2, 4, 5, 10, 11, 20, 22, 44, 55, 110, 220	504
222	1, 2, 3, 6, 37, 74, 111, 222	456
224	1, 2, 4, 7, 8, 14, 16, 28, 32, 56, 112, 224	504
228	1, 2, 3, 4, 6, 12, 19, 38, 57, 76, 114, 228	560
234	1, 2, 3, 6, 9, 13, 18, 26, 39, 78, 117, 234	546
240	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 16, 20, 24, 30, 40, 48, 60, 80, 120, 240	744
246	1, 2, 3, 6, 41, 82, 123, 246	504
252	1, 2, 3, 4, 6, 7, 9, 12, 14, 18, 21, 28, 36, 42, 63, 84, 126, 252	728
258	1, 2, 3, 6, 43, 86, 129, 258	528
260	1, 2, 4, 5, 10, 13, 20, 26, 52, 65, 130, 260	588
264	1, 2, 3, 4, 6, 8, 11, 12, 22, 24, 33, 44, 66, 88, 132, 264	720
270	1, 2, 3, 5, 6, 9, 10, 15, 18, 27, 30, 45, 54, 90, 135, 270	720
272	1, 2, 4, 8, 16, 17, 34, 68, 136, 272	558
276	1, 2, 3, 4, 6, 12, 23, 46, 69, 92, 138, 276	672
280	1, 2, 4, 5, 7, 8, 10, 14, 20, 28, 35, 40, 56, 70, 140, 280	720
282	1, 2, 3, 6, 47, 94, 141, 282	576

List-135



Let us have a look, how many of the surahs with an abundant number of ayats have odd sequence numbers and how many of them have even thereof:

Surahs with abundant number of ayats

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>	<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
3	Āl 'Imrān	200	56	Al-Wāqī'ah	96
4	Al-Nisā	176	59	Al-Ḥashr	24
5	Al-Māidah	120	64	Al-Taghābun	18
21	Al-Anbiyā	112	65	Al-Ṭalāq	12

22	Al-Ḥajj	78	66	Al-Taḥrīm	12
28	Al-Qaṣaṣ	88	67	Al-Mulk	30
30	Al-Rūm	60	73	Al-Muzzammil	20
32	Al-Sajdah	30	74	Al-Muddaththir	56
34	Saba	54	75	Al-Qiyāmah	40
38	Şād	88	78	Al-Naba'	40
41	Fuṣṣilat	54	80	'Abasa	42
49	Al-Ḥujurāt	18	83	Al-Muṭaffifin	36
51	Al-Dhāriyāt	60	89	Al-Fajr	30
55	Al-Raḥmān	78	90	Al-Balad	20

List-136

There are **28** surahs in List-136

The surahs of which their number of ayats is abundant number and which have an odd sequence number

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
3	Āl 'Imrān	200
5	Al-Māidah	120
21	Al-Anbiyā	112
41	Fuṣṣilat	54
49	Al-Ḥujurāt	18
51	Al-Dhāriyāt	60
55	Al-Raḥmān	78

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
59	Al-Ḥashr	24
65	Al-Ṭalāq	12
67	Al-Mulk	30
73	Al-Muzzammil	20
75	Al-Qiyāmah	40
83	Al-Muṭaffifin	36
89	Al-Fajr	30

List-137

There are **14** surahs in List-137

The surahs of which their number of ayats is abundant number and which have an even sequence number

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
4	Al-Nisā	176
22	Al-Ḥajj	78

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
56	Al-Wāqī'ah	96
64	Al-Taghābun	18

28	Al-Qaṣaṣ	88	66	Al-Taḥrīm	12
30	Al-Rūm	60	74	Al-Muddaththir	56
32	Al-Sajdah	30	78	Al-Naba'	40
34	Saba	54	80	'Abasa	42
38	Ṣād	88	90	Al-Balad	20

List-138

There are 14 surahs in List-138



**مَنْ يَنْظُرُونَ إِلَّا تَأْوِيلَهُ يَوْمَ يَأْتِيهِ
 تَأْوِيلَهُ يَقُولُ الَّذِينَ نَسُوهُ مِنْ قَبْلِ
 قَدْ جَاءَتْ رُسُلُ رَبِّنَا بِالْحَقِّ!**

“Await they just for the final fulfillment of the event? On the Day the event is finally fulfilled, those who neglected it before will say: Verily, the Messengers of our Lord did come with the truth!”

(Al-A'rāf/53)

NO.	SURAH	Ayat	SURAHS WITH ABUNDANT NUMBER OF AYATS AND ODD SEQUENCE NUMBER	SURAHS WITH ABUNDANT NUMBER OF AYATS AND EVEN SEQUENCE NUMBER
1	Al-Fatiha	7		
2	Al-Baqarah	286		
3	Al-Imran	200	x	
4	Al-Nisa	176		
5	Al-Maidah	120	x	
6	Al-An'am	165		
7	Al-A'raf	206		
8	Al-Anfal	75		
9	Al-Tawbah	129		
10	Yonus	109		
11	Hud	123		
12	Yusuf	111		
13	Al-Ra'd	43		
14	Ibrahim	52		
15	Al-Hijr	99		
16	Al-Nahl	128		
17	Al-Isra	111		
18	Al-Kahf	110		
19	Maryam	98		
20	Taha	135		
21	Al-Anbiya	112	x	
22	Al-Hajj	76		
23	Al-Muminun	118		x
24	Al-Nur	64		
25	Al-Furqan	77		
26	Al-Shu'ara	227		
27	Al-Naml	93		
28	Al-Qasas	88		x
29	Al-Ankabut	69		
30	Al-Rum	60		x
31	Lugman	34		
32	Al-Sajdah	30		x
33	Al-Ahzab	73		x
34	Saba	54		x
35	Fatir	45		
36	Yaasin	83		
37	Al-Saffat	182		x
38	Sad	86		
39	Al-Zumar	75		
40	Al-Mumin	85		
41	Fussilat	54	x	
42	Al-Shura	53		
43	Al-Zukhruf	89		
44	Al-Dukhan	59		
45	Al-Jathiyah	37		
46	Al-Ahqaf	35		
47	Muhammad	38		
48	Al-Fath	29		
49	Al-Hujurat	18	x	
50	Qaf	45		
51	Al-Dhariyat	60	x	
52	Al-Tur	49		
53	Al-Najm	62		
54	Al-Qamar	55		
55	Al-Rahman	78	x	
56	Al-Waqi'ah	96		
57	Al-Hadid	29		x
58	Al-Mujadilat	22		
59	Al-Hashr	24	x	
60	Al-Mumtahinah	13		
61	Al-Saff	14		
62	Al-Jumu'ah	11		
63	Al-Munafiqun	11		
64	Al-Taghabin	12		
65	Al-Talac	12	x	
66	Al-Tahrim	12		x
67	Al-Mulk	30	x	
68	Al-Qalam	52		
69	Al-Haqqah	52		
70	Al-Ma'arij	44		
71	Nuh	28		
72	Al-Jinn	28		
73	Al-Muzzammil	20	x	
74	Al-Muddaththir	56		
75	Al-Qiyamah	40	x	
76	Al-Insan	31		
77	Al-Mursalat	50		
78	Al-Nab	40		x
79	Al-Nazi'at	46		
80	Abasa	42		x
81	Al-Takwir	29		
82	Al-Infitar	19		
83	Al-Mutaffifin	36	x	
84	Al-Inshiqaq	25		
85	Al-Buruj	22		
86	Al-Tariq	17		
87	Al-A'la	19		
88	Al-Ghashiyah	26		
89	Al-Fajr	30	x	
90	Al-Balad	20		
91	Al-Shams	15		x
92	Al-Layl	21		
93	Al-Duha	11		
94	Al-Inshirah	8		
95	Al-Tin	8		
96	Al-Alaq	19		
97	Al-Qadr	5		
98	Al-Bayyinah	8		
99	Al-Zilzal	8		
100	Al-Adiyāt	11		
101	Al-Qari'ah	11		
102	Al-Takathur	8		
103	Al-Asr	3		
104	Al-Humaza	9		
105	Al-Fil	5		
106	Quraysh	4		
107	Al-Ma'un	7		
108	Al-Kawthar	3		
109	Al-Kafirun	6		
110	Al-Nasr	3		
111	Tabbat	5		
112	Al-Ikhlāṣ	4		
113	Al-Falaq	5		
114	Al-Nas	6		

14

14

In the figure, equal distribution of the surahs with abundant number of ayats is shown.

Now, let's examine the surahs with non-abundant number of ayats with the same approach.

Surahs with non-abundant number of ayats

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>	<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
1	Al-Fātiḥa	7	60	Al-Mumtaḥinah	13
2	Al-Baqarah	286	61	Al-Şaff	14
6	Al-En'ām	165	62	Al-Jumu'ah	11
7	Al-A'rāf	206	63	Al-Munāfiqūn	11
8	Al-Anfāl	75	68	Al-Qalam	52
9	Al-Tawbah	129	69	Al-Ḥāqqah	52
10	Yūnus	109	70	Al-Ma'ārij	44
11	Hūd	123	71	Nūḥ	28
12	Yūsuf	111	72	Al-Jinn	28
13	Al-Ra'd	43	76	Al-Insān	31
14	Ibrāhīm	52	77	Al-Mursalāt	50
15	Al-Ḥijr	99	79	Al-Nāzi'āt	46
16	Al-Naḥl	128	81	Al-Takwīr	29
17	Al-'Isrā	111	82	Al-Infītār	19
18	Al-Kahf	110	84	Al-Inshiqāq	25
19	Maryam	98	85	Al-Burūj	22
20	Ṭāhā	135	86	Al-Ṭāriq	17
23	Al-Mu'minūn	118	87	Al-A'lā	19
24	Al-Nūr	64	88	Al-Ghāshiyah	26
25	Al-Furqān	77	91	Al-Shams	15
26	Al-Shu'arā	227	92	Al-Layl	21
27	Al-Naml	93	93	Al-Ḍuḥā	11
29	Al-'Ankabūt	69	94	Al-Inshirāḥ	8
31	Luqmān	34	95	Al-Tīn	8
33	Al-Aḥzāb	73	96	Al-'Alaq	19
35	Fāṭir	45	97	Al-Qadr	5
36	Yāsīn	83	98	Al-Bayyinah	8
37	Al-Şaffāt	182	99	Al-Zilzāl	8
39	Al-Zumar	75	100	Al-'Ādiyāt	11
40	Al-Mu'min	85	101	Al-Qāri'ah	11

42	Al-Shūrā	53	102	Al-Takāthur	8
43	Al-Zukhruf	89	103	Al-‘Asr	3
44	Al-Dukhān	59	104	Al-Humaza	9
45	Al-Jāthiyah	37	105	Al-Fīl	5
46	Al-Aḥqāf	35	106	Quraysh	4
47	Muḥammad	38	107	Al-Mā‘ūn	7
48	Al-Faṭḥ	29	108	Al-Kawthar	3
50	Qāf	45	109	Al-Kāfirūn	6
52	Al-Ṭūr	49	110	Al-Naṣr	3
53	Al-Najm	62	111	Tabbat	5
54	Al-Qamar	55	112	Al-Ikhlāṣ	4
57	Al-Ḥadīd	29	113	Al-Falaq	5
58	Al-Mujādalah	22	114	Al-Nās	6

List-139

There are 86 surahs in List-139

The surahs of which their number of ayats is non-abundant number and which have an odd sequence number

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
1	Al-Fātiḥa	7
7	Al-A‘rāf	206
9	Al-Tawbah	129
11	Hūd	123
13	Al-Ra‘d	43
15	Al-Ḥijr	99
17	Al-‘Isrā	111
19	Maryam	98
23	Al-Mu‘minūn	118
25	Al-Furqān	77
27	Al-Naml	93
29	Al-‘Ankabūt	69
31	Luqmān	34
33	Al-Aḥzāb	73
35	Fāṭir	45

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
61	Al-Şaff	14
63	Al-Munāfiqūn	11
69	Al-Ḥāqqah	52
71	Nūḥ	28
77	Al-Mursalāt	50
79	Al-Nāzi‘āt	46
81	Al-Takwīr	29
85	Al-Burūj	22
87	Al-A‘lā	19
91	Al-Shams	15
93	Al-Ḍuḥa	11
95	Al-Tīn	8
97	Al-Qadr	5
99	Al-Zilzāl	8
101	Al-Qāri‘ah	11

37	Al-Şaffāt	182	103	Al-‘Asr	3
39	Al-Zumar	75	105	Al-Fīl	5
43	Al-Zukhruf	89	107	Al-Mā‘ūn	7
45	Al-Jāthiyah	37	109	Al-Kāfirūn	6
47	Muḥammad	38	111	Tabbat	5
53	Al-Najm	62	113	Al-Falaq	5
57	Al-Ḥadīd	29			

List-140

There are 43 surahs in List-140

The surahs of which their number of ayats is non-abundant number and which have an even sequence number

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
2	Al-Baqarah	286
6	Al-En‘ām	165
8	Al-Anfāl	75
10	Yūnus	109
12	Yūsuf	111
14	Ibrāhīm	52
16	Al-Naḥl	128
18	Al-Kahf	110
20	Ṭāhā	135
24	Al-Nūr	64
26	Al-Shu‘arā	227
36	Yāsīn	83
40	Al-Mu‘min	85
42	Al-Shūrā	53
44	Al-Dukhān	59
46	Al-Aḥqāf	35
48	Al-Faṭḥ	29
50	Qāf	45
52	Al-Ṭūr	49
54	Al-Qamar	55
58	Al-Mujādalah	22

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
62	Al-Jumu‘ah	11
68	Al-Qalam	52
70	Al-Ma‘ārij	44
72	Al-Jinn	28
76	Al-Insān	31
82	Al-Infīṭār	19
84	Al-Inshiqāq	25
86	Al-Ṭāriq	17
88	Al-Ghāshiyah	26
92	Al-Layl	21
94	Al-Inshirāḥ	8
96	Al-‘Alaq	19
98	Al-Bayyinah	8
100	Al-‘Ādiyāt	11
102	Al-Takāthur	8
104	Al-Humaza	9
106	Quraysh	4
108	Al-Kawthar	3
110	Al-Naṣr	3
112	Al-Ikhlāṣ	4
114	Al-Nās	6

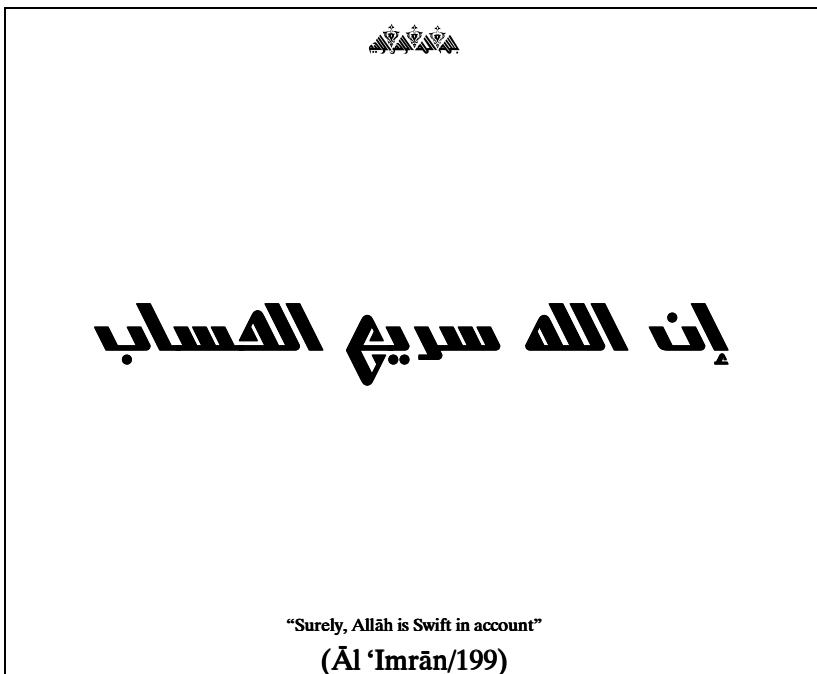
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60 Al-Mumtaḥinah 13

List-141

There are 43 surahs in List-141

Let's see the results which outcome collectively:





NO.	SURAH	Ayat	SURAHS WITH NON-ABUNDANT NUMBER OF AYATS AND ODD SEQUENCE NUMBER	SURAHS WITH NON-ABUNDANT NUMBER OF AYATS AND EVEN SEQUENCE NUMBER
1	Al-Fātiha	7		
2	Al-Baqarah	286	X	
3	Al-Imran	200		X
4	Al-Nisa	176		
5	Al-Maidah	120		
6	Al-An'am	165		X
7	Al-A'raf	206	X	
8	Al-Anfal	75		X
9	Al-Taubah	129	X	
10	Yonus	109		X
11	Hud	123	X	
12	Yusuf	111		X
13	Al-Ra'd	43	X	
14	Ibrahim	52		X
15	Al-Hijr	99	X	
16	Al-Nahl	128		X
17	Al-Isra	111	X	
18	Al-Kahf	110		X
19	Maryam	98	X	
20	Taha	135		X
21	Al-Anbiya	112		
22	Al-Hajj	76		
23	Al-Mu'minun	118	X	
24	Al-Nur	64		X
25	Al-Furqan	77	X	
26	Al-Shu'ara	227		X
27	Al-Naml	93	X	
28	Al-Qasas	88		X
29	Al-Akhdut	69	X	
30	Al-Rum	60		X
31	Lugman	34	X	
32	Al-Sajdah	30		X
33	Al-Ahzab	73	X	
34	Saba	54		X
35	Fatir	45	X	
36	Yaasin	83		X
37	Al-Saffat	182	X	
38	Sad	86		
39	Al-Zumar	75	X	
40	Al-Mumin	85		X
41	Fussilat	54		X
42	Al-Shura	53		X
43	Al-Zukhruf	89	X	
44	Al-Dukhan	59		X
45	Al-Jathiyah	37	X	
46	Al-Ahqaf	35		X
47	Muhammad	38	X	
48	Al-Fath	29		X
49	Al-Hujurat	18		X
50	Qaf	45		X
51	Al-Dhariyat	60		X
52	Al-Tur	49		X
53	Al-Najm	62	X	
54	Al-Qamar	55		X
55	Al-Rahman	78		
56	Al-Waqiah	96		
57	Al-Hadid	29	X	
58	Al-Mujadilab	22		X
59	Al-Hashr	24		X
60	Al-Mumtahinah	13		X
61	Al-Saff	14	X	
62	Al-Jumu'ah	11		X
63	Al-Munafiqun	11	X	
64	Al-Taghathun	12		
65	Al-Talaq	12		
66	Al-Tahrim	12		
67	Al-Mulk	30		
68	Al-Qalam	52		X
69	Al-Haqqah	52	X	
70	Al-Ma'arij	44		X
71	Nuh	28	X	
72	Al-Jinn	28		X
73	Al-Muzzammil	20		
74	Al-Muddaththir	56		
75	Al-Qiyamah	40		
76	Al-Insan	31		X
77	Al-Mursalat	50	X	
78	Al-Naba	40		
79	Al-Nazi'at	46	X	
80	Abasa	42		
81	Al-Takwir	29	X	
82	Al-Infitar	19		X
83	Al-Mutaffifin	36		
84	Al-Insyiqq	25		
85	Al-Buruj	22	X	
86	Al-Tariq	17		X
87	Al-A'ra	19	X	
88	Al-Ghassiyah	26		X
89	Al-Fajr	30		
90	Al-Balad	20		
91	Al-Shams	15	X	
92	Al-Layl	21		X
93	Al-Duha	11	X	
94	Al-Insirah	8		X
95	Al-Tin	8	X	
96	Al-Alaq	19		X
97	Al-Qadr	5	X	
98	Al-Bayyinah	8	X	
99	Al-Zilzal	8	X	
100	Al-Adiyah	11		X
101	Al-Qariyah	11	X	
102	Al-Takathur	8		X
103	Al-Asr	3	X	
104	Al-Humaza	9		X
105	Affil	5	X	
106	Quraysh	4		X
107	Al-Ma'un	7	X	
108	Al-Kawthar	3		X
109	Al-Kafirun	6	X	
110	Al-Nasr	3		X
111	Tabbat	5	X	
112	Al-Ikhlās	4		X
113	Al-Falaq	5	X	
114	Al-Nas	6		X

43

43

In the figure, equal distribution of the surahs with non-abundant number of ayats is shown.

 Now let us divide the numbers in the index of Qur'ān as homogeneous and non-homogeneous with respect to “being abundant”.


 Example for the surahs with homogeneous sequence numbers and number of ayats:

30 Al-Rūm 60

The sequence number and also the number of ayats of the surah of al-Rūm are abundant numbers. Consequently, surah of al-Rūm is a **homogeneous** surah in this sense.

1 Al-Fātiḥa 7

Surah al-Fātiḥa is a homogeneous surah. Forewhy neither the sequence number, nor the number of ayats are abundant numbers. Therefore, al-Fātiḥa surah is homogeneous in this respect.

 Example for the surahs of which their sequence numbers and number of ayats are not homogeneous:

12 Yūsuf 111

The sequence number of surah Yūsuf is an abundant number; however, the number of ayats is not. Therefore, surah Yūsuf is considered as non-homogeneous.

4 Al-Nisā 176

The number of ayats of surah al-Nisā is an abundant number; however, the sequence number is not. Therefore, surah al-Nisā is considered as non-homogeneous.

The set of homogeneous surahs with respect to being abundant in the sequence number and the number of ayats

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
1	Al-Fātiḥa	7
2	Al-Baqarah	286
6	Al-En'ām	165
7	Al-A'rāf	206
8	Al-Anfāl	75
9	Al-Tawbah	129
10	Yūnus	109
11	Hūd	123
13	Al-Ra'd	43
14	Ibrāhīm	52
15	Al-Ḥijr	99
16	Al-Naḥl	128
17	Al-'Isrā	111
19	Maryam	98
23	Al-Mu'minūn	118
25	Al-Furqān	77
26	Al-Shu'arā	227
27	Al-Naml	93
29	Al-'Ankabūt	69
30	Al-Rūm	60
31	Luqmān	34
33	Al-Aḥzāb	73
35	Fāṭir	45
37	Al-Şaffāt	182
39	Al-Zumar	75
43	Al-Zukhruf	89
44	Al-Dukhān	59
45	Al-Jāthiyah	37
46	Al-Aḥqāf	35
47	Muḥammad	38
50	Qāf	45
52	Al-Ṭūr	49
53	Al-Najm	62
56	Al-Wāqī'ah	96
57	Al-Ḥadīd	29
58	Al-Mujādalah	22

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
61	Al-Şaff	14
62	Al-Jumu'ah	11
63	Al-Munāfiqūn	11
66	Al-Taḥrīm	12
68	Al-Qalam	52
69	Al-Ḥāqqah	52
71	Nūḥ	28
76	Al-Insān	31
77	Al-Mursalāt	50
78	Al-Naba'	40
79	Al-Nāzi'āt	46
80	'Abasa	42
81	Al-Takwīr	29
82	Al-Infītār	19
85	Al-Burūj	22
86	Al-Ṭāriq	17
87	Al-A'lā	19
90	Al-Balad	20
91	Al-Shams	15
92	Al-Layl	21
93	Al-Ḍuḥā	11
94	Al-Inshirāḥ	8
95	Al-Tīn	8
97	Al-Qadr	5
98	Al-Bayyinah	8
99	Al-Zilzāl	8
101	Al-Qāri'ah	11
103	Al-'Asr	3
105	Al-Fīl	5
106	Quraysh	4
107	Al-Mā'ūn	7
109	Al-Kāfirūn	6
110	Al-Naşr	3
111	Tabbat	5
113	Al-Falaq	5

List-142

If we count the members of the List-142, we find that the total members of this set are **71**.

71 is a prime number!

The set of non-homogeneous surahs with respect to being abundant in the sequence number and the number of ayats

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
3	Āl ‘Imrān	200
4	Al-Nisā	176
5	Al-Māidah	120
12	Yūsuf	111
18	Al-Kahf	110
20	Ṭhāhā	135
21	Al-Anbiyā	112
22	Al-Hajj	78
24	Al-Nūr	64
28	Al-Qaṣaṣ	88
32	Al-Sajdah	30
34	Saba	54
36	Yāsīn	83
38	Şād	88
40	Al-Mu’min	85
41	Fuṣṣilat	54
42	Al-Shūrā	53
48	Al-Faṭḥ	29
49	Al-Ḥujurāt	18
51	Al-Dhāriyāt	60
54	Al-Qamar	55
55	Al-Raḥmān	78

<i>No.</i>	<i>Surah</i>	<i>Ayat</i>
59	Al-Ḥaṣhr	24
60	Al-Mumtaḥinah	13
64	Al-Taghābun	18
65	Al-Ṭalāq	12
67	Al-Mulk	30
70	Al-Ma’ārij	44
72	Al-Jinn	28
73	Al-Muzzammil	20
74	Al-Muddaththir	56
75	Al-Qiyāmah	40
83	Al-Muṭaffifin	36
84	Al-Inshiqāq	25
88	Al-Ghāshiyah	26
89	Al-Fajr	30
96	Al-‘Alaq	19
100	Al-‘Ādiyāt	11
102	Al-Takāthur	8
104	Al-Humaza	9
108	Al-Kawthar	3
112	Al-Iklāş	4
114	Al-Nās	6

List-143

If we count the members of the List-143, we find that the total members of this set are **43**.

43 is a prime number!

NO.	SURAH	Ayat	HOMOGENOUS	NON-HOMOGENOUS
1	Al-Fatihah	7	X	
2	Al-Baqarah	286	X	
3	Al-Imran	200	X	
4	Al-Nisa	176	X	X
5	Al-Maidah	120	X	X
6	Al-En'am	165	X	
7	Al-A'raf	206	X	
8	Al-Anfal	75	X	
9	Al-Tawbah	129	X	
10	Yunus	109	X	
11	Hud	123	X	
12	Yusuf	111	X	
13	Al-Ra'd	43	X	X
14	Ibrahim	52	X	
15	Al-Hijr	99	X	
16	Al-Nahl	128	X	
17	Al-Isra	111	X	
18	Al-Kahf	110	X	X
19	Maryam	98	X	
20	Taha	135	X	X
21	Al-Anbiya	112	X	X
22	Al-Hajj	78	X	X
23	Al-Mu'minun	118	X	X
24	Al-Nur	64	X	X
25	Al-Furqan	77	X	
26	Al-Shu'ara	227	X	
27	Al-Naml	93	X	
28	Al-Qasas	88	X	X
29	Al-Ankabut	65	X	
30	Al-Rum	60	X	
31	Luqman	34	X	
32	Al-Sajdah	30	X	X
33	Al-Azab	73	X	
34	Saba	54	X	X
35	Fatir	45	X	X
36	Yasin	83	X	
37	Al-Saffat	182	X	
38	Sad	88	X	X
39	Al-Zumar	75	X	
40	Al-Murmin	85	X	X
41	Fussilat	54	X	X
42	Al-Shura	53	X	X
43	Al-Zukhruf	89	X	
44	Al-Dukhan	59	X	
45	Al-Jathiyah	37	X	
46	Al-Ahqaf	35	X	
47	Muhammad	38	X	
48	Al-Fath	29	X	
49	Al-Hujurat	18	X	X
50	Qaf	45	X	
51	Al-Dhariyat	60	X	X
52	Al-Tur	49	X	X
53	Al-Najm	62	X	X
54	Al-Qamar	55	X	X
55	Al-Rahman	78	X	X
56	Al-Waqiah	96	X	X
57	Al-Hadid	29	X	
58	Al-Mujadilah	22	X	
59	Al-Hashr	24	X	X
60	Al-Mumtahinah	13	X	X
61	Al-Saff	14	X	
62	Al-Jumu'ah	11	X	
63	Al-Munafiqun	11	X	
64	Al-Taghobun	13	X	X
65	Al-Talaaq	12	X	X
66	Al-Tahrim	12	X	
67	Al-Mulk	30	X	X
68	Al-Qalam	52	X	
69	Al-Haqqah	52	X	
70	Al-Ma'arij	44	X	X
71	Nuh	28	X	
72	Al-Jinn	28	X	X
73	Al-Muzzammil	20	X	X
74	Al-Muddaththir	36	X	X
75	Al-Qiyamah	40	X	X
76	Al-Insan	31	X	
77	Al-Mursalat	50	X	
78	Al-Naba'	40	X	
79	Al-Nazi'at	46	X	
80	'Abasa	42	X	
81	Al-Takwir	26	X	
82	Al-Infitar	19	X	
83	Al-Mutaffifin	36	X	X
84	Al-Inshiqaaq	25	X	X
85	Al-Buruj	22	X	
86	Al-Tariq	17	X	
87	Al-A'la	19	X	
88	Al-Ghashiyah	26	X	X
89	Al-Fajr	30	X	X
90	Al-Balad	20	X	
91	Al-Shams	15	X	
92	Al-Layl	21	X	
93	Al-Duha	11	X	
94	Al-Inshirah	8	X	
95	Al-Tin	8	X	
96	Al-Ala	19	X	
97	Al-Qadr	5	X	X
98	Al-Bayyinah	8	X	
99	Al-Zilzal	8	X	
100	Al-Adiyah	11	X	X
101	Al-Qari'ah	11	X	
102	Al-Takathur	8	X	X
103	Al-Asr	3	X	
104	Al-Humaza	9	X	X
105	Ahfil	5	X	
106	Quraysh	4	X	
107	Al-Ma'on	7	X	
108	Al-Kawthar	3	X	X
109	Al-Kafirun	6	X	
110	Al-Nasr	3	X	
111	Tabbat	5	X	
112	Al-Ikhlās	4	X	X
113	Al-Falaq	5	X	
114	Al-Nās	6	X	X

71 43

In the figure, (prime-prime) distribution of the homogenous and non-homogenous surahs is shown.

NO.	SURAH	Ayat	HOMOGENOUS	NON-HOMOGENOUS
1	Al-Fatihah	7	X	
2	Al-Baqarah	286	X	
3	Al-Imran	200	X	
4	Al-Nisa	176	X	X
5	Al-Maidah	120	X	X
6	Al-En'am	165	X	
7	Al-A'raf	206	X	
8	Al-Anfal	75	X	
9	Al-Tawbah	129	X	
10	Yunus	109	X	
11	Hud	123	X	
12	Yusuf	111	X	
13	Al-Ra'd	43	X	X
14	Ibrahim	52	X	
15	Al-Hijr	99	X	
16	Al-Nahl	128	X	
17	Al-Isra	111	X	
18	Al-Kahf	110	X	
19	Maryam	98	X	X
20	Taha	135	X	X
21	Al-Anbiya	112	X	X
22	Al-Hajj	78	X	X
23	Al-Mu'minun	118	X	X
24	Al-Nur	64	X	X
25	Al-Furqan	77	X	
26	Al-Shu'ara	227	X	
27	Al-Naml	93	X	
28	Al-Qasas	88	X	X
29	Al-Akabet	63	X	
30	Al-Rum	60	X	
31	Luqman	34	X	
32	Al-Sajdah	30	X	X
33	Al-Azab	73	X	
34	Saba	54	X	X
35	Fatir	45	X	X
36	Yasin	83	X	
37	Al-Saffat	182	X	
38	Sad	88	X	X
39	Al-Zumar	75	X	
40	Al-Muramin	89	X	X
41	Fussilat	54	X	X
42	Al-Shura	53	X	X
43	Al-Zuhruf	89	X	X
44	Al-Dukhan	59	X	
45	Al-Jathiyah	37	X	
46	Al-Ahqaf	35	X	
47	Muhammad	38	X	
48	Al-Fath	29	X	X
49	Al-Hujurat	18	X	X
50	Qaf	45	X	
51	Al-Dhariyat	60	X	X
52	Al-Tur	49	X	
53	Al-Najm	62	X	
54	Al-Qamar	55	X	
55	Al-Rahman	78	X	X
56	Al-Waqiah	96	X	X
57	Al-Asid	29	X	
58	Al-Mujadilah	22	X	
59	Al-Hashr	24	X	X
60	Al-Mumtahinah	13	X	
61	Al-Saff	14	X	
62	Al-Jumu'ah	11	X	
63	Al-Munafiqun	11	X	
64	Al-Taghabin	13	X	X
65	Al-Talac	12	X	
66	Al-Tahrim	12	X	
67	Al-Mulk	30	X	X
68	Al-Qalam	52	X	
69	Al-Haqqah	52	X	
70	Al-Ma'arij	44	X	
71	Nuh	28	X	
72	Al-Jinn	28	X	
73	Al-Muzzammil	20	X	
74	Al-Muddaththir	36	X	
75	Al-Qiyamah	40	X	
76	Al-Insan	31	X	
77	Al-Mursalat	50	X	
78	Al-Naba	40	X	
79	Al-Nazi'at	46	X	
80	Abasa	42	X	
81	Al-Takwir	26	X	
82	Al-Infitar	19	X	
83	Al-Mutaffifin	36	X	X
84	Al-Inshiqaq	25	X	X
85	Al-Buruj	22	X	
86	Al-Tariq	17	X	
87	Al-A'la	19	X	
88	Al-Ghashiyah	26	X	
89	Al-Fajr	30	X	X
90	Al-Balad	20	X	
91	Al-Shams	15	X	
92	Al-Layl	21	X	
93	Al-Duha	11	X	
94	Al-Inshirah	8	X	
95	Al-Tin	8	X	
96	Al-Alaq	19	X	
97	Al-Qadr	5	X	X
98	Al-Bayyinah	8	X	
99	Al-Zilzal	8	X	
100	Al-Adiyah	11	X	X
101	Al-Qariyah	11	X	
102	Al-Takathur	8	X	X
103	Al-Asr	3	X	
104	Al-Humaza	9	X	X
105	Ahfil	5	X	
106	Quraysh	4	X	
107	Al-Ma'on	7	X	
108	Al-Kawthar	3	X	X
109	Al-Kafirun	6	X	
110	Al-Nasr	3	X	
111	Tabbat	5	X	
112	Al-Ikhlās	4	X	X
113	Al-Falaq	5	X	
114	Al-Nas	6	X	X

PRIME

PRIME

axis of symmetry

In the figure, (prime-prime) distribution of the homogenous and non-homogenous surahs is shown.