
INTERNATIONAL STANDARD



3

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Preferred numbers — Series of preferred numbers

First edition — 1973-04-01

STANDARDSISO.COM : Click to view the full PDF of ISO 3:1973

UDC 389.171

Ref. No. ISO 3-1973 (E)

Descriptors : preferred numbers.

Price based on 4 pages

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, International Standard ISO 3 replaces ISO Recommendation R 3-1954 drawn up by Technical Committee ISO/TC 19, *Preferred numbers*.

The Member Bodies of the following countries approved the Recommendation :

Australia	India	Spain
Austria	Israel	Sweden
Belgium	Italy	Switzerland
Chile	Mexico	United Kingdom
Denmark	Netherlands	U.S.A.
Finland	New Zealand	U.S.S.R.
France	Norway	Yugoslavia
Germany	Portugal	
Hungary	South Africa, Rep. of	

No Member Body expressed disapproval of the Recommendation.

Preferred numbers – Series of preferred numbers

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies series of preferred numbers.

STANDARDSISO.COM : Click to view the full PDF of ISO 3-1973

2 BASIC SERIES OF PREFERRED NUMBERS

Basic series				Serial number	Theoretical values		Percentage differences between basic series and calculated values %
					Mantissae of logarithms	Calculated values	
R 5	R 10	R 20	R 40				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1,00	1,00	1,00	1,00	0	000	1,0000	0
			1,06	1	025	1,0593	+ 0,07
			1,12	2	050	1,1220	- 0,18
			1,18	3	075	1,1885	+ 0,71
			1,25	4	100	1,2589	- 0,71
			1,32	5	125	1,3335	- 1,01
			1,40	6	150	1,4125	- 0,88
1,60	1,60		1,50	7	175	1,4962	+ 0,25
		1,60	1,60	8	200	1,5849	+ 0,95
			1,70	9	225	1,6788	+ 1,26
			1,80	10	250	1,7783	+ 1,22
			1,90	11	275	1,8836	+ 0,87
			2,00	12	300	1,9953	+ 0,24
			2,12	13	325	2,1135	+ 0,31
2,50	2,50	2,24	2,24	14	350	2,2387	+ 0,06
			2,36	15	375	2,3714	- 0,48
		2,50	2,50	16	400	2,5119	- 0,47
			2,65	17	425	2,6607	- 0,40
			2,80	18	450	2,8184	- 0,65
			3,00	19	475	2,9854	+ 0,49
			3,15	20	500	3,1623	- 0,39
4,00	4,00		3,35	21	525	3,3497	+ 0,01
			3,55	22	550	3,5481	+ 0,05
			3,75	23	575	3,7584	- 0,22
		4,00	4,00	24	600	3,9811	+ 0,47
			4,25	25	625	4,2170	+ 0,78
			4,50	26	650	4,4668	+ 0,74
			4,75	27	675	4,7315	+ 0,39
6,30	6,30	5,00	5,00	28	700	5,0119	- 0,24
			5,30	29	725	5,3088	- 0,17
			5,60	30	750	5,6234	- 0,42
			6,00	31	775	5,9566	+ 0,73
			6,30	32	800	6,3096	- 0,15
			6,70	33	825	6,6834	+ 0,25
			7,10	34	850	7,0795	+ 0,29
10,00	10,00		7,50	35	875	7,4989	+ 0,01
		8,00	8,00	36	900	7,9433	+ 0,71
			8,50	37	925	8,4140	+ 1,02
			9,00	38	950	8,9125	+ 0,98
			9,50	39	975	9,4406	+ 0,63
			10,00	40	000	10,0000	0