

There are several ways to pick random numbers—random number generators (which are a built-in feature in spreadsheets and many computer languages), tables (such as Table 15.5), a roulette wheel, and so on.

If the simulation is being done by hand, as in this book, the numbers may be selected by the spin of a roulette wheel that has 100 slots, by blindly grabbing numbered chips out of a hat, or by any method that allows you to make a random selection. The most commonly used means is to choose numbers from a table of random digits, such as Table 15.5.

Table of Random Numbers

Chart #1

52	06	50	88	53	30	10	47	99	37	66	91	35	32	00	84
37	63	28	02	74	35	24	03	29	60	74	85	90	73	59	55
82	57	68	28	05	94	03	11	27	79	90	87	92	41	09	25
69	02	36	49	71	99	32	10	75	21	95	90	94	38	97	71
98	94	90	36	06	78	23	67	89	85	29	21	25	73	69	34
96	52	62	87	49	56	59	23	78	71	72	90	57	01	98	57
33	69	27	21	11	60	95	89	68	48	17	89	34	09	93	50
50	33	50	95	13	44	34	62	64	39	55	29	30	64	49	44
88	32	18	50	62	57	34	56	62	31	15	40	90	34	51	95
90	30	36	24	69	82	51	74	30	35	36	85	01	55	92	64
50	48	61	18	85	23	08	54	17	12	80	69	24	84	92	16
27	88	21	62	69	64	48	31	12	73	02	68	00	16	16	46
45	14	46	32	13	49	66	62	74	41	86	98	92	98	84	54
81	02	01	78	82	74	97	37	45	31	94	99	42	49	27	64
66	83	14	74	27	76	03	33	11	97	59	81	72	00	64	61
74	05	81	82	93	09	96	33	52	78	13	06	28	30	94	23
30	34	87	01	74	11	46	82	59	94	25	34	32	23	17	01
59	55	72	33	62	13	74	68	22	44	42	09	32	46	71	79
67	09	80	98	99	25	77	50	03	32	36	63	65	75	94	19
60	77	46	63	71	69	44	22	03	85	14	48	69	13	30	50
60	08	19	29	36	72	30	27	50	64	85	72	75	29	87	05
80	45	86	99	02	34	87	08	86	84	49	76	24	08	01	86
53	84	49	63	26	65	72	84	85	63	26	02	75	26	92	62
69	84	12	94	51	36	17	02	15	29	16	52	56	43	26	22
37	77	13	10	02	18	31	19	32	85	31	94	81	43	31	58

Overnight Barge Arrival Rates and Random Number Intervals

Chart #2

NUMBER OF ARRIVALS	PROBABILITY	CUMULATIVE PROBABILITY	RANDOM NUMBER INTERVAL
0	0.13	0.13	01 to 13
1	0.17	0.30	14 to 30
2	0.15	0.45	31 to 45
3	0.25	0.70	46 to 70
4	0.20	0.90	71 to 90
5	0.10	1.00	91 to 00