Chance of rolling at least K hits on N dice, given strike numbers of:

6 5

4 3 2

Number of dice

Number of hits needed	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	16.7	30.6	42.1	51.8	59.8	66.5	72.1	76.7	80.6	83.8	86.5	88.8	90.7	92.2	93.5	1
		2.8	7.4	13.2	19.6	26.3	33.0	39.5	45.7	51.5	56.9	61.9	66.4	70.4	74.0	2
			0.5	1.6	3.5	6.2	9.6	13.5	17.8	22.5	27.3	32.3	37.2	42.1	46.8	3
30	0.0			0.1	0.3	0.9	1.8	3.1	4.8	7.0	9.6	12.5	15.8	19.4	23.2	4
29	0.0	0.0			0.0	0.1	0.2	0.5	0.9	1.5	2.5	3.6	5.1	6.9	9.0	5
28	0.0	0.0	0.0			0.0	0.0	0.0	0.1	0.2	0.5	0.8	1.3	1.9	2.7	6
27	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.7	7
26	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	8
25	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	10
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	11
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	12
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	13
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	14
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	15
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
13	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
12	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12
11	0.7	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
10	2.0	1.5	1.2	0.9	0.7	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	10
9	5.1	4.1	3.3	2.6	2.1	1.6	1.2	0.9	0.6	0.4	0.3	0.2	0.1	0.1	0.0	9
8	11.4	9.7	8.2	6.8	5.5	4.5	3.5	2.8	2.1	1.6	1.1	0.8	0.5	0.3	0.2	8
7	22.3	19.8	17.3	15.0	12.9	10.9	9.1	7.5	6.1	4.8	3.7	2.8	2.1	1.5	1.0	7
6	38.4	35.2	32.0	28.8	25.8	22.8	20.0	17.2	14.7	12.3	10.2	8.2	6.5	5.0	3.8	6
5	57.6	54.4	51.1	47.6	44.2	40.6	37.1	33.5	30.0	26.5	23.1	19.9	16.8	14.0	11.3	5
4	76.0	73.6	70.9	68.1	65.1	61.8	58.4	54.9	51.2	47.3	43.3	39.3	35.2	31.1	27.1	4
3	89.7	88.4	86.8	85.1	83.2	81.1	78.8	76.3	73.5	70.4	67.1	63.6	59.7	55.6	51.3	3
2	97.1	96.6	96.0	95.3	94.6	93.7	92.7	91.5	90.2	88.7	87.0	85.0	82.7	80.2	77.3	2
1	99.6	99.5	99.4	99.3	99.1	99.0	98.7	98.5	98.2	97.8	97.4	96.9	96.2	95.5	94.6	1
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	

Number of dice

Number of dice

Number of hits needed	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	33.3	55.6	70.4	80.2	86.8	91.2	94.1	96.1	97.4	98.3	98.8	99.2	99.5	99.7	99.8	1
		11.1	25.9	40.7	53.9	64.9	73.7	80.5	85.7	89.6	92.5	94.6	96.1	97.3	98.1	2
			3.7	11.1	21.0	32.0	42.9	53.2	62.3	70.1	76.6	81.9	86.1	89.5	92.1	3
30	0.0			1.2	4.5	10.0	17.3	25.9	35.0	44.1	52.7	60.7	67.8	73.9	79.1	4
29	0.0	0.0			0.4	1.8	4.5	8.8	14.5	21.3	28.9	36.8	44.8	52.4	59.6	5
28	0.0	0.0	0.0			0.1	0.7	2.0	4.2	7.7	12.2	17.8	24.1	31.0	38.2	6
27	0.0	0.0	0.0	0.0			0.0	0.3	0.8	2.0	3.9	6.6	10.4	14.9	20.3	7
26	0.0	0.0	0.0	0.0	0.0			0.0	0.1	0.3	0.9	1.9	3.5	5.8	8.8	8
25	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.4	0.9	1.7	3.1	9
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.2	0.4	0.9	10
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.1	0.2	11
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	12
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	13
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	14
19	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	15
18	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.7	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	1.9	1.3	0.8	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
15	4.3	3.1	2.2	1.4	0.9	0.6	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	15
14	9.0	6.8	5.0	3.6	2.5	1.6	1.0	0.6	0.3	0.2	0.1	0.0	0.0	0.0	0.0	14
13	16.6	13.3	10.4	7.9	5.8	4.2	2.8	1.9	1.2	0.7	0.4	0.2	0.1	0.0	0.0	13
12	27.6	23.2	19.1	15.4	12.1	9.2	6.8	4.8	3.3	2.1	1.3	0.7	0.4	0.2	0.1	12
11	41.5	36.4	31.4	26.6	22.0	17.8	14.0	10.7	7.9	5.6	3.8	2.4	1.4	0.8	0.4	11
10	56.8	51.7	46.4	41.1	35.7	30.4	25.4	20.6	16.3	12.5	9.2	6.5	4.3	2.7	1.6	10
9	71.4	67.0	62.3	57.2	51.8	46.2	40.6	34.9	29.3	24.0	19.1	14.6	10.8	7.5	5.0	9
8	83.3	80.1	76.5	72.5	67.9	63.0	57.6	51.9	46.0	39.9	33.9	27.9	22.3	17.2	12.7	8
7	91.6	89.7	87.4	84.7	81.5	77.8	73.7	69.0	63.8	58.1	52.1	45.7	39.1	32.6	26.3	7
6	96.5	95.5	94.3	92.8	91.0	88.8	86.2	83.1	79.4	75.1	70.3	64.8	58.8	52.2	45.3	6
5	98.8	98.4	97.9	97.2	96.4	95.4	94.1	92.4	90.4	87.9	84.8	81.2	76.9	71.9	66.1	5
4	99.7	99.6	99.4	99.2	98.9	98.5	98.0	97.4	96.5	95.4	94.0	92.1	89.8	87.0	83.4	4
3	99.9	99.9	99.9	99.8	99.7	99.6	99.5	99.3	99.1	98.7	98.2	97.6	96.7	95.6	94.1	3
2	100	100	100	100	100	99.9	99.9	99.9	99.8	99.8	99.7	99.5	99.3	99.0	98.6	2
1	100	100	100	100	100	100	100	100	100	100	100	100	99.9	99.9	99.8	1
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	

Number of dice

Number of dice

Number of hits needed	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	50.0	75.0	87.5	93.8	96.9	98.4	99.2	99.6	99.8	99.9	100	100	100	100	100	1
		25.0	50.0	68.8	81.3	89.1	93.8	96.5	98.0	98.9	99.4	99.7	99.8	99.9	100	2
			12.5	31.3	50.0	65.6	77.3	85.5	91.0	94.5	96.7	98.1	98.9	99.4	99.6	3
30	0.0			6.3	18.8	34.4	50.0	63.7	74.6	82.8	88.7	92.7	95.4	97.1	98.2	4
29	0.0	0.0			3.1	10.9	22.7	36.3	50.0	62.3	72.6	80.6	86.7	91.0	94.1	5
28	0.0	0.0	0.0			1.6	6.3	14.5	25.4	37.7	50.0	61.3	70.9	78.8	84.9	6
27	0.0	0.0	0.0	0.0			0.8	3.5	9.0	17.2	27.4	38.7	50.0	60.5	69.6	7
26	0.0	0.0	0.0	0.0	0.0			0.4	2.0	5.5	11.3	19.4	29.1	39.5	50.0	8
25	0.0	0.0	0.0	0.0	0.0	0.0			0.2	1.1	3.3	7.3	13.3	21.2	30.4	9
24	0.1	0.0	0.0	0.0	0.0	0.0	0.0			0.1	0.6	1.9	4.6	9.0	15.1	10
23	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.3	1.1	2.9	5.9	11
22	0.8	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0			0.0	0.2	0.6	1.8	12
21	2.1	1.2	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0			0.0	0.1	0.4	13
20	4.9	3.1	1.8	1.0	0.5	0.2	0.1	0.0	0.0	0.0	0.0			0.0	0.0	14
19	10.0	6.8	4.4	2.6	1.4	0.7	0.3	0.1	0.0	0.0	0.0	0.0			0.0	15
18	18.1	13.2	9.2	6.1	3.8	2.2	1.1	0.5	0.2	0.1	0.0	0.0	0.0			
17	29.2	22.9	17.2	12.4	8.4	5.4	3.2	1.7	0.8	0.4	0.1	0.0	0.0	0.0		
16	42.8	35.6	28.6	22.1	16.3	11.5	7.6	4.7	2.6	1.3	0.6	0.2	0.1	0.0	0.0	16
15	57.2	50.0	42.5	35.1	27.9	21.2	15.4	10.5	6.7	3.9	2.1	1.0	0.4	0.1	0.0	15
14	70.8	64.4	57.5	50.0	42.3	34.5	27.1	20.2	14.3	9.5	5.8	3.2	1.5	0.6	0.2	14
13	81.9	77.1	71.4	64.9	57.7	50.0	41.9	33.9	26.2	19.2	13.2	8.4	4.8	2.5	1.1	13
12	90.0	86.8	82.8	77.9	72.1	65.5	58.1	50.0	41.6	33.2	25.2	18.0	11.9	7.2	3.8	12
11	95.1	93.2	90.8	87.6	83.7	78.8	72.9	66.1	58.4	50.0	41.2	32.4	24.0	16.6	10.5	11
10	97.9	96.9	95.6	93.9	91.6	88.5	84.6	79.8	73.8	66.8	58.8	50.0	40.7	31.5	22.7	10
9	99.2	98.8	98.2	97.4	96.2	94.6	92.4	89.5	85.7	80.8	74.8	67.6	59.3	50.0	40.2	9
8	99.7	99.6	99.4	99.0	98.6	97.8	96.8	95.3	93.3	90.5	86.8	82.0	76.0	68.5	59.8	8
7	99.9	99.9	99.8	99.7	99.5	99.3	98.9	98.3	97.4	96.1	94.2	91.6	88.1	83.4	77.3	7
6	100	100	100	99.9	99.9	99.8	99.7	99.5	99.2	98.7	97.9	96.8	95.2	92.8	89.5	6
5	100	100	100	100	100	100	99.9	99.9	99.8	99.6	99.4	99.0	98.5	97.5	96.2	5
4	100	100	100	100	100	100	100	100	100	99.9	99.9	99.8	99.6	99.4	98.9	4
3	100	100	100	100	100	100	100	100	100	100	100	100	99.9	99.9	99.8	3
2	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	2
1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	1
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	

Number of dice

Number of dice

Number of hits needed	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	66.7	88.9	96.3	98.8	99.6	99.9	100	100	100	100	100	100	100	100	100	1
		44.4	74.1	88.9	95.5	98.2	99.3	99.7	99.9	100	100	100	100	100	100	2
			29.6	59.3	79.0	90.0	95.5	98.0	99.2	99.7	99.9	99.9	100	100	100	3
30	0.0			19.8	46.1	68.0	82.7	91.2	95.8	98.0	99.1	99.6	99.8	99.9	100	4
29	0.0	0.0			13.2	35.1	57.1	74.1	85.5	92.3	96.1	98.1	99.1	99.6	99.8	5
28	0.1	0.0	0.0			8.8	26.3	46.8	65.0	78.7	87.8	93.4	96.5	98.3	99.1	6
27	0.3	0.1	0.0	0.0			5.9	19.5	37.7	55.9	71.1	82.2	89.6	94.2	96.9	7
26	1.2	0.4	0.1	0.0	0.0			3.9	14.3	29.9	47.3	63.2	75.9	85.1	91.2	8
25	3.5	1.6	0.6	0.2	0.0	0.0			2.6	10.4	23.4	39.3	55.2	69.0	79.7	9
24	8.4	4.5	2.1	0.8	0.3	0.1	0.0			1.7	7.5	18.1	32.2	47.6	61.8	10
23	16.7	10.3	5.7	2.8	1.1	0.4	0.1	0.0			1.2	5.4	13.9	26.1	40.4	11
22	28.6	19.9	12.6	7.2	3.6	1.5	0.5	0.1	0.0			0.8	3.9	10.5	20.9	12
21	43.2	33.0	23.5	15.3	9.0	4.6	2.0	0.7	0.2	0.0			0.5	2.7	7.9	13
20	58.5	48.3	37.7	27.5	18.5	11.2	5.9	2.6	0.9	0.2	0.0			0.3	1.9	14
19	72.4	63.6	53.6	42.8	32.1	22.2	13.8	7.6	3.5	1.3	0.3	0.0			0.2	15
18	83.4	76.8	68.6	58.9	48.2	37.0	26.3	16.9	9.6	4.6	1.8	0.5	0.1			
17	91.0	86.7	80.9	73.4	64.3	53.8	42.4	31.0	20.6	12.1	6.0	2.4	0.7	0.1		
16	95.7	93.2	89.6	84.6	78.0	69.6	59.4	48.1	36.2	24.9	15.2	7.9	3.3	1.0	0.2	16
15	98.1	96.9	95.0	92.1	87.9	82.2	74.6	65.1	54.0	41.9	29.7	18.8	10.2	4.4	1.4	15
14	99.3	98.7	97.8	96.4	94.2	90.8	86.0	79.4	70.7	60.1	47.9	35.2	23.1	13.0	5.9	14
13	99.8	99.5	99.2	98.6	97.5	95.8	93.2	89.3	83.7	76.0	66.1	54.3	41.2	28.1	16.6	13
12	99.9	99.9	99.7	99.5	99.1	98.4	97.2	95.2	92.1	87.5	80.9	72.1	60.9	47.8	33.9	12
11	100	100	99.9	99.8	99.7	99.4	99.0	98.1	96.7	94.4	90.8	85.4	77.7	67.4	54.7	11
10	100	100	100	100	99.9	99.8	99.7	99.4	98.8	97.9	96.2	93.5	89.2	82.8	73.7	10
9	100	100	100	100	100	100	99.9	99.8	99.7	99.3	98.7	97.6	95.7	92.5	87.3	9
8	100	100	100	100	100	100	100	100	99.9	99.8	99.6	99.3	98.6	97.3	95.0	8
7	100	100	100	100	100	100	100	100	100	100	99.9	99.8	99.6	99.2	98.4	7
6	100	100	100	100	100	100	100	100	100	100	100	99.9	99.8	99.6		6
5	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99.9	5
4	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4
3	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	3
2	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	2
1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	1
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	

Number of dice

Number of dice

Number of hits needed	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	83.3	97.2	99.5	99.9	100	100	100	100	100	100	100	100	100	100	100	1
		69.4	92.6	98.4	99.7	99.9	100	100	100	100	100	100	100	100	100	2
			57.9	86.8	96.5	99.1	99.8	100	100	100	100	100	100	100	100	3
30	0.4			48.2	80.4	93.8	98.2	99.5	99.9	100	100	100	100	100	100	4
29	2.9	0.5			40.2	73.7	90.4	96.9	99.1	99.8	99.9	100	100	100	100	5
28	10.3	3.4	0.6			33.5	67.0	86.5	95.2	98.5	99.5	99.9	100	100	100	6
27	24.0	11.6	4.0	0.7			27.9	60.5	82.2	93.0	97.5	99.2	99.8	99.9	100	7
26	42.4	26.4	13.2	4.7	0.9			23.3	54.3	77.5	90.4	96.4	98.7	99.6	99.9	8
25	61.6	45.6	29.1	14.9	5.4	1.0			19.4	48.5	72.7	87.5	94.9	98.1	99.3	9
24	77.7	64.8	48.9	31.9	16.8	6.3	1.3			16.2	43.1	67.7	84.2	93.1	97.3	10
23	88.6	80.2	68.0	52.4	34.9	18.9	7.3	1.5			13.5	38.1	62.8	80.6	91.0	11
22	94.9	90.3	82.7	71.2	55.8	38.2	21.2	8.5	1.8			11.2	33.6	57.9	76.8	12
21	98.0	95.9	91.8	85.0	74.2	59.4	41.6	23.7	9.8	2.2			9.3	29.6	53.2	13
20	99.3	98.5	96.7	93.2	87.1	77.2	62.9	45.1	26.5	11.3	2.6			7.8	26.0	14
19	99.8	99.5	98.8	97.4	94.5	89.1	80.0	66.5	48.8	29.6	13.0	3.1			6.5	15
18	99.9	99.9	99.6	99.1	97.9	95.5	90.9	82.8	70.0	52.7	32.9	15.0	3.8			
17	100	100	99.9	99.7	99.3	98.4	96.5	92.5	85.3	73.5	56.7	36.4	17.3	4.5		
16	100	100	100	99.9	99.8	99.5	98.8	97.2	93.9	87.7	76.9	60.7	40.3	19.8	5.4	16
15	100	100	100	100	100	99.9	99.7	99.1	97.9	95.2	89.8	80.1	64.8	44.4	22.7	15
14	100	100	100	100	100	100	99.9	99.8	99.4	98.4	96.3	91.8	83.2	68.9	48.7	14
13	100	100	100	100	100	100	100	99.9	99.8	99.6	98.9	97.2	93.5	86.0	72.9	13
12	100	100	100	100	100	100	100	100	100	99.9	99.7	99.2	97.9	95.0	88.7	12
11	100	100	100	100	100	100	100	100	100	100	99.9	99.8	99.5	98.5	96.2	11
10	100	100	100	100	100	100	100	100	100	100	100	100	99.9	99.7	99.0	10
9	100	100	100	100	100	100	100	100	100	100	100	100	100	99.9	99.8	9
8	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	8
7	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	7
6	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	6
5	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	5
4	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4
3	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	3
2	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	2
1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	1
	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	

Number of dice