

Math Dice — every reachable value, full rule set

One simplest solution for every roll against every target. Rows in grey are not targets — they are the extra values you can reach, listed because nothing else here reveals them. For any target not shown, the nearest number in this block is your best answer. A block marked (cont) continues the column before it.

1 1 1	1 1 4 (cont)	1 1 6 (cont)	1 2 3 (cont)	1 2 5 (cont)
1 (1×1)×1	2 (1×√4)×1	23 (√(16))!-1	63 21×3	32 (1×2)^5
2 (1+1)×1	3 (1×4) -1	24 (√(16))!×1	64 (1×2)^3!	33 (2^5)+1
3 (1+1)+1	4 (1×4)×1	25 (√(16))!+1	65 13÷.2	36 (1+5)^2
5 1÷(.1+.1)	5 (1+4)×1	30 6÷(.1+.1)	70 21÷.3	40 2÷(.1×.5)
6 ((1+1)+1)!	6 (1+1)+4	36 6^(1+1)	72 12×3!	42 21÷.5
9 (1÷.1)-1	7 11-4	40 √(16)÷.1	80 (2^3)÷.1	48 (5+.1)-2
10 11-1	8 (1+1)×4	50 (6-1)÷.1	90 (3^2)÷.1	49 51-2
11 11×1	9 11-√4	59 (6÷.1)-1	100 √(.1^(2-3!))	50 .5+ (.1^2)
12 11+1	10 (1^4)÷.1	60 61-1	114 (1÷.2)!-3!	55 √(1+5!)÷.2
20 (1+1)÷.1	11 √(11^√4)	64 (1+1)^6	120 ((1×2)+3)!	60 12×5
100 1÷(.1×.1)	12 4!÷(1+1)	66 11×6	121 (2+3)!+1	64 2^(1+5)
110 11÷.1	14 14×1	70 (1+6)÷.1	132 132	70 (2+5)÷.1
120 (1÷(.1+.1))!	15 11+4	72 (.1×6!)×1	144 (1×3!)!×.2	72 ((5-2)!)!×.1
1 1 2	16 (1+1)^4	73 (.1×6!)÷1	1 2 4	75 15÷.2
1 (1^2)×1	19 (√4÷.1)-1	100 .1+√(.1^6)	1 1^24	96 (1-.2)×5!
2 (1×2)×1	20 (1×√4)÷.1	116 116	2 (1×4) -2	99 5!-21
3 (1+2)×1	21 (√4÷.1)+1	120 ((1×6)-1)!	3 (1^4)+2	100 5!÷1.2
4 (1+1)+2	22 11×√4	121 (6-1)!+1	4 (1^2)×4	108 5!-12
5 (1×1)÷.2	24 (1×4!)×1	144 (.1+.1)×6!	5 (1^2)+4	120 (1^2)×5!
6 (1+2)!×1	25 1÷(.1×.4)	1 2 2	6 (1×2)+4	121 (1^2)+5!
7 (1+2)!+1	26 (1+1)+4!	1 1^22	7 14÷2	132 12+5!
8 (1÷.1)-2	30 (4-1)÷.1	2 (1^2)×2	8 (1×2)×4	144 1.2×5!
9 11-2	32 √(√4^(1÷.1))	3 (1^2)+2	9 (2×4)+1	1 2 6
10 .1^(1-2)	35 11+4!	4 (1×2)+2	10 (1+4)×2	1 1^26
11 12-1	40 41-1	5 (1^2)÷.2	11 (4!÷2)-1	2 (1^6)×2
12 12×1	42 41+1	6 12÷2	12 14-2	3 (1×6)÷2
13 11+2	44 11×4	7 (1÷.2)+2	14 12+√4	4 (1×6)-2
19 (2÷.1)-1	48 (1+1)×4!	8 2^(1+2)	15 (2^4) -1	5 6÷1.2
20 21-1	50 (1+4)÷.1	9 (1+2)^2	16 (1×2)^4	6 (1^2)×6
21 21×1	60 (4-1)!÷.1	10 12-2	18 (2÷.1)-√4	7 (1^2)+6
22 11×2	64 √(√((1+1)^4!))	11 (2÷.2)+1	20 (1×4)÷.2	8 (1×2)+6
24 ((1+1)+2)!	72 ((4-1)!)!×.1	12 √(12^2)	21 √(21^√4)	9 (1+2)+6
30 (1+2)÷.1	100 1÷(.1^√4)	14 12+2	22 (1×4!) -2	10 (6-1)×2
32 √(2^(1÷.1))	114 114	15 (1+2)÷.2	24 24×1	11 (2×6)-1
50 1÷(.1×.2)	120 (1+4)!×1	18 (2÷.1)-2	25 21+4	12 (1×2)×6
55 11÷.2	121 11^√4	20 .2÷(.1^2)	27 (1+2)+4!	14 16-2
60 (1+2)!÷.1	140 14÷.1	21 22-1	28 14×2	15 21-6
72 ((1+2)!)!×.1	141 141	22 22×1	30 12÷.4	16 2^√(16)
100 1÷(.1^2)	1 1 5	24 12×2	32 2^(1+4)	18 12+6
112 112	1 (1^5)×1	25 (1÷.2)^2	36 12+4!	20 12÷.6
120 12÷.1	2 (1^5)+1	30 (1+2)!÷.2	40 .4÷(.1^2)	22 (√(16))!-2
121 11^2	3 5-(1+1)	32 2^(1+.2)	42 42×1	24 ((1×6)-2)!
1 1 3	4 (1×5)-1	36 (1+2)!^2	44 (2÷.1)+4!	25 26-1
1 (1^3)×1	5 (1×5)×1	40 (2+2)÷.1	45 21+4!	27 21+6
2 (1×3)-1	6 (1+5)×1	42 21×2	48 12×4	30 (1×6)÷.2
3 (1×3)×1	7 (1+1)+5	60 12÷.2	49 (2×4!)+1	32 16×2
4 (1+3)×1	10 (1^5)÷.1	64 √(2^12)	50 2÷(.1×.4)	35 21÷.6
5 (1+1)+3	11 (.1×5!) -1	100 2÷(.1×.2)	60 (2+4)÷.1	36 (1×6)^2
6 (1×3!)×1	12 (.1×5!)×1	105 21÷.2	63 √(√(2^4!)) -1	40 (6-2)÷.1
7 (1+3!)×1	14 15-1	120 ((1^2)÷.2)!	64 4^(1+2)	48 (√(16))!×2
8 11-3	15 15×1	122 122	65 √(√(2^4!))÷1	49 (1+6)^2
9 3^(1+1)	16 11+5	144 12^2	70 14÷.2	58 (6÷.1)-2
10 (1^3)÷.1	20 1÷(.1×.5)	1 2 3	72 (1+2)×4!	60 .6÷(.1^2)
11 √((3!-1)!+1)	22 11÷.5	1 1^23	80 (2×4)÷.1	63 61+2
12 13-1	24 ((1×5)-1)!	2 3-(1^2)	81 (1+2)^4	64 (1×2)^6
14 11+3	25 5^(1+1)	3 (1^3)+2	84 21×4	65 (2^6)+1
15 3÷(.1+.1)	32 (1+1)^5	4 (1^2)+3	96 (1÷.2)!-4!	70 (.1×6!) -2
16 (1÷.1)+3!	40 (5-1)÷.1	5 (1×2)+3	100 .1^(2-4)	72 12×6
17 11+3!	49 (5÷.1)-1	6 (1^2)×3	115 (4!-1)÷.2	80 16÷.2
20 (3-1)÷.1	50 51-1	7 21÷3	120 ((1^2)+4)!	100 √(.1^(2-6))
23 (1+3)!-1	55 11×5	8 (1×2)^3	121 (4!÷.2)+1	114 (1÷.2)!-6
24 (1+3)!×1	60 (1+5)÷.1	9 (1×3)^2	128 √(2^14)	120 (6+1.2)!
25 (1+3)!+1	72 (1+5)!×.1	10 .1^(2-3)	144 12^√4	128 2^(1+6)
29 (3÷.1)-1	100 √(.1^(1-5))	11 13-2	1 2 5	144 (.1×2)×6!
30 31-1	108 (1-.1)×5!	12 (1×2)×3!	1 1^25	1 3 3
32 31+1	110 5!-(1+.1)	14 (3÷.2)-1	2 (1^5)×2	1 1^33
33 11×3	120 (1×5!)×1	15 12+3	3 (1×5)-2	2 3-(1^3)
36 3!^(1+1)	121 (1+5!)×1	16 (1+3)^2	4 5-(1^2)	3 (1^3)×3
40 (1+3)÷.1	132 1.1×5!	18 21-3	5 (1^2)×5	4 (1^3)+3
50 (3!-1)÷.1	150 15÷.1	20 (1+3)÷.2	6 (1^2)+5	5 (3+3)-1
59 (3!÷.1)-1	1 1 6	22 23-1	7 (1×2)+5	6 (1×3)+3
60 (1×3!)÷.1	1 (1^6)×1	24 21+3	8 (1+2)+5	7 (1+3)+3
64 (1+1)^3!	2 (1^6)+1	25 .2^(1-3)	9 (2×5)-1	8 (3×3)-1
66 11×3!	3 6÷(1+1)	27 (1+2)^3	10 (1×2)×5	9 (1×3)×3
70 (1+3!)÷.1	4 √(16)×1	28 (3÷.1)-2	11 (2×5)+1	10 13-3
72 (.1×(3!))!×1	5 (1×6)-1	30 .3÷(.1^2)	12 (1+5)×2	11 (3÷.3)+1
73 (.1×(3!))!÷1	6 (1×6)×1	32 32×1	14 (.1×5!)+2	12 (1+3)×3
100 .1^(1-3)	7 (1+6)×1	33 31+2	15 (1+2)×5	15 3÷(.3-.1)
113 113	8 (1+1)+6	35 (3!^2)-1	16 21-5	16 13+3
120 ((1+1)+3)!	10 (1^6)÷.1	36 12×3	17 12+5	18 (1×3!)×3
121 (3!-1)!+1	11 √((6-1)!+1)	40 12÷.3	20 (5-1)÷.2	20 (1×3!)÷.3
131 131	12 (1+1)×6	48 (1+3)!×2	22 (5-1)!-2	21 (1+3)!-3
144 (.1+.1)×(3!))!	15 16-1	49 (1+3!)^2	24 25-1	24 ((1^3)+3)!
1 1 4	16 16×1	50 (2+3)÷.1	25 25×1	25 31-3!
1 (1^4)×1	17 11+6	58 (3!÷.1)-2	26 21+5	27 (1×3)^3
	20 √(√(16))÷.1	60 (2×3)÷.1	30 15×2	28 31-3

1 3 3 (cont)

30 (3!-3)÷.1
32 33-1
33 33×1
35 (3!×3!)÷-1
36 (1×3!)×3!
40 (3!-1)!÷3
42 (1+3!)×3!
49 √(((3!)!÷.3)+1)
54 (3!÷.1)-3!
57 (3!÷.1)-3
60 (3+3)÷.1
63 (3!÷.1)+3
64 (1+3)^3
66 (3!÷.1)+3!
69 (.1×(3!)!)-3
72 (1+3)!×3
78 13×3!
80 (1+3)!÷.3
81 3^(1+3)
90 (3×3)÷.1
93 31×3
100 3÷(.1×.3)
114 (3!-1)!÷-3!
120 ((3+3)-1)!
121 ((3!)!+3!)÷+1
133 133
144 (1+3)!×3!

1 3 4

1 1^34
2 3-(1^4)
3 4-(1^3)
4 (1^4)+3
5 (1^3)+4
6 (3+4)-1
7 (1×3)+4
8 (1+3)+4
9 13-4
10 .1^(3-4)
11 14-3
12 (1×3)×4
14 (3!÷.4)-1
15 (1+4)×3
16 (1+3)×4
18 (4-1)×3!
20 14+3!
21 (1×4!)÷-3
22 (1+4!)÷-3
24 (1×3!)×4
25 (1^3)+4!
27 31-4
28 (1+3)+4!
30 .3÷(.1^√4)
32 (3÷.1)+√4
33 34-1
35 31+4
36 (1×3!)^√4
40 (1+4)!÷3
42 43-1
44 41+3
48 (3-1)×4!
49 (1+3!)^√4
50 (3+√4)÷.1
54 (3÷.1)+4!
55 31+4!
56 (3!÷.1)-4
60 (1+3)!÷.4
63 (4^3)-1
64 (1×4)^3
65 (4^3)+1
70 (3+4)÷.1
72 (1×3)×4!
76 (.1×(3!)!)+4
80 (3^4)-1
81 (1×3)^4
84 14×3!
90 (3^√4)÷.1
96 (1+3)×4!
100 .1^(4-3!)
114 (1+4)!÷-3!
120 ((1^3)+4)!
121 (3+√4)!÷+1
134 134
144 (1×3!)×4!

1 3 5

1 1^35
2 3÷1.5
3 (1^5)×3
4 (1^5)+3
5 (1^3)×5
6 (1^3)+5
7 (3+5)-1
8 (1×3)+5
9 (1+3)+5
10 (3-1)×5

1 3 5 (cont)

11 (1×3!)÷5
12 15-3
14 (3×5)-1
15 (1×3)×5
16 (3×5)+1
18 13+5
20 (1+3)×5
21 15+3!
24 ((1^5)+3)!
25 5^(3-1)
27 (5-1)!÷3
30 (1×3!)×5
32 (3-1)^5
33 √(1+5!)×3
35 35×1
36 31+5
40 (1×5!)÷3
42 (1+3!)!÷5!
44 (5÷.1)-3!
45 15×3
48 51-3
50 15÷.3
54 51+3
55 (3!÷.1)-5
56 (5÷.1)+3!
60 3÷(.1×.5)
64 (5-1)^3
66 √(1+5!)×3!
72 (5-1)!×3
77 (.1×(3!)!)+5
80 (3+5)÷.1
81 3^(5-1)
84 (1-.3)×5!
89 5!-31
90 15×3!
96 5!-(1+3)!
100 .1^(3-5)
107 5!-13
110 (3!+5)÷.1
120 (1^3)×5!
121 (1^3)+5!
133 13+5!
144 (1×3!)!÷5

1 3 6

1 1^36
2 (1×6)÷3
3 (1×6)-3
4 (1^6)+3
5 6-(1^3)
6 (1^3)×6
7 (1^3)+6
8 (3+6)-1
9 (1×3)+6
10 (1+3)+6
11 (3!+6)-1
12 (3-1)×6
15 (6-1)×3
18 (1×3)×6
20 (1×6)÷.3
21 (1+6)×3
22 16+3!
24 (1+3)×6
25 31-6
27 √(3^6)×1
28 √(3^6)+1
30 (6-3)÷.1
35 36-1
36 36×1
40 (6-1)!÷3
42 (1+3!)×6
45 (3!)!÷16
48 16×3
49 √((6!÷.3)+1)
50 3÷(.1×.6)
54 (3!÷.1)-6
55 61-3!
60 √(36)÷.1
63 63×1
64 61+3
66 (3!÷.1)+6
69 (.1×6!)÷-3
72 (√(16))!×3
78 13×6
80 (√(16))!÷.3
81 3^√(16)
90 (3+6)÷.1
96 16×3!
100 3!÷(.1×.6)
114 (3!-1)!÷-6
120 (6-(1^3))!
121 (3÷.6)!÷+1
136 136
144 (1+3)!×6

1 4 4

1 1^44
2 (4+4)+1
3 4-(1^4)
4 (1^4)×4
5 (1^4)+4
6 (1×4!)÷4
7 (4+4)-1
8 (1×4)+4
9 (1+4)+4
10 14-4
11 (4÷.4)+1
12 √(144)
14 √(14^√4)
15 (4×4)-1
16 (1×4)×4
18 14+4
20 (1+4)×4
21 √(441)
22 (1×4!)÷-√4
24 (1^4)×4!
25 (1^4)+4!
27 (4!+4)-1
28 (1×4!)÷4
30 (1+4)!÷4
32 √4^(1+4)
35 14÷.4
36 (4÷.1)-4
40 .4÷(.1^√4)
42 (4÷.1)+√4
44 44×1
45 41+4
48 (1×4!)÷4!
49 (1+4!)÷4!
50 √4÷(.1×.4)
56 14×4
60 (1×4!)÷.4
63 √(√(√4^4!))-1
64 4^(4-1)
65 41+4!
72 (4-1)×4!
80 (4+4)÷.1
81 (1-4)^4
82 41×√4
92 (4!-1)×4
96 (1×4!)×4
100 4÷(.1×.4)
116 (1+4)!÷-4
120 ((1^4)+4)!
121 (√4÷.4)!÷+1
128 √(√4^14)
144 144

1 4 5

1 1^45
2 (.1×4)×5
3 4-(1^5)
4 5-(1^4)
5 (1^5)+4
6 (1^4)+5
7 1.4×5
8 (1×4)÷.5
9 (1×4)+5
10 .1^(4-5)
11 15-4
12 (.1×4!)×5
14 (.1×5!)÷+√4
15 (4-1)×5
16 4!÷1.5
18 4!-(1+5)
20 (1×4)×5
21 (4×5)+1
22 4!-(1÷.5)
24 (1+5)×4
25 (1+4)×5
27 51-4!
28 14÷.5
30 (1×5!)÷4
32 (1×√4)^5
33 (√4^5)+1
35 (4÷.1)-5
36 41-5
40 √4÷(.1×.5)
44 45-1
45 45×1
48 (.1×4)×5!
49 51-√4
50 .5÷(.1^√4)
54 54×1
55 51+4
60 15×4
64 √4^(1+5)
70 14×5
72 (1-.4)×5!
75 51+4!
80 4÷(.1×.5)
82 41÷.5

1 4 5 (cont)

90 (4+5)÷.1
96 (5-1)×4!
100 (5×√4)÷.1
106 5!-14
114 5!-(4-1)!
120 (1×4!)×5
121 (1^4)+5!
134 14+5!
144 (1+5)×4!

1 4 6

1 1^46
2 (1×6)-4
3 4-(1^6)
4 (1^6)×4
5 (1^6)+4
6 (1^4)×6
7 (1^4)+6
8 14-6
9 (4+6)-1
10 (1×4)+6
11 (1+4)+6
12 16-4
14 16-√4
15 (1×6)÷.4
16 √(16)×4
18 (4-1)×6
20 14+6
22 (√(16))!÷-√4
24 (1×4)×6
25 (4×6)+1
27 √((1-4)^6)
28 (1+6)×4
30 (1+4)×6
32 16×√4
35 41-6
36 (1×6)^√4
40 16÷.4
41 (4!÷.6)+1
45 46-1
48 (6-1)!×.4
49 (1+6)^√4
56 (6÷.1)-4
60 .6÷(.1^√4)
63 64-1
64 64×1
65 61+4
70 (.1×6!)÷-√4
72 (1+4)!×.6
76 (.1×6!)÷4
80 √(64)÷.1
84 14×6
85 61+4!
96 √(16)×4!
100 .1^(4-6)
114 (1+4)!÷-6
120 ((1^6)+4)!
128 √4^(1+6)
144 (1×4!)×6

1 5 5

1 1^55
2 1.5÷.5
3 15÷5
4 5-(1^5)
5 (1^5)×5
6 (1^5)+5
7 (1÷.5)+5
8 5!÷15
9 (5+5)-1
10 (1×5)+5
11 (1+5)+5
12 (1+5)÷.5
16 .5^(1-5)
19 (5-1)!÷-5
20 15+5
22 √(1+5!)÷.5
24 (5×5)-1
25 (1×5)×5
26 (5×5)+1
29 (5-1)!÷5
30 15÷.5
32 (1÷.5)^5
45 (5÷.1)-5
48 (5-1)!÷.5
50 √(5×5)÷.1
54 55-1
55 55×1
56 51+5
60 (.1×5!)×5
61 (.5×5!)÷+1
69 5!-51
70 5!-(5÷.1)
72 (.1+5)×5!
75 15×5
80 5!÷1.5

1 5 5 (cont)

96 5!-(5-1)!
100 5÷(.1×.5)
108 5!-(.1×5!)
109 5!-√(1+5!)
120 (1^5)×5!
121 (1^5)+5!
132 (.1×5!)÷5!
144 (1+5)!÷5

1 5 6

1 1^56
2 √(6÷1.5)
3 (.1×5)×6
4 6÷1.5
5 6-(1^5)
6 (1^6)+5
7 (1^5)+6
8 1.6×5
9 15-6
10 .1^(5-6)
11 (1×5)+6
12 (1×6)÷.5
14 (1+6)÷.5
15 6÷(.5-.1)
18 (.1×5!)÷6
20 (1×5!)÷6
21 15+6
24 (6÷1.5)!
25 15÷.6
29 (5×6)-1
30 (1×5)×6
32 16÷.5
35 (1+6)×5
36 (1+5)×6
40 (5-1)!÷.6
42 (1+6)!÷5!
44 (5÷.1)-6
45 51-6
48 6!÷15
55 56-1
56 56×1
60 √(5×6!)×1
64 65-1
66 61+5
71 (.6×5!)÷-1
72 (.1×5!)×6
77 (.1×6!)÷5
80 16×5
84 (.1+6)×5!
90 15×6
96 5!-(√(16))!
110 (5+6)÷.1
120 6÷(.1×.5)
121 (1^6)+5!
136 16+5!
144 (1×6!)÷5

1 6 6

1 1^66
2 (6+6)+1
3 (6-1)×.6
4 6-√(√(16))
5 6-(1^6)
6 (1^6)×6
7 (1^6)+6
8 √(√(16))÷6
9 (6÷.6)-1
10 16-6
11 (6+6)-1
12 (1×6)+6
15 6÷(1-.6)
18 (√(16))!÷-6
20 (6-1)!÷6
22 16+6
24 √(16)×6
30 (6-1)×6
35 (6×6)-1
36 (1×6)×6
40 (√(16))!÷.6
42 (1+6)×6
45 6!÷16
54 (6÷.1)-6
55 61-6
60 √(6×6)÷.1
64 √(√(16))^6
66 66×1
72 (6-1)!×.6
78 (.1×6!)÷6
96 16×6
100 6÷(.1×.6)
114 (6-1)!÷-6
120 (1×6!)÷6
121 (6!÷6)+1
126 (6-1)!÷6
144 6!÷(6-1)

2 2 2		2 2 4 (cont)		2 3 3 (cont)		2 3 4 (cont)		2 3 6 (cont)	
1 2-(2÷2)		48 24×2		2 2,3-.3		88 (2^3!)+4!		40 (2×6)÷.3	
2 2,2-./2		50 2(2×4!)÷2		3 (2×3)-3		90 (3!^2)÷.4		42 (3!^2)+6	
3 (2÷2)+2		55 22÷.4		4 (3+3)-2		96 (2^4)×3!		45 (3+6)÷.2	
4 √(2+2)+2		60 (2+2)!÷.4		5 (2^3)-3		100 (3!+4)^2		48 (2^3)×6	
5 2÷(.2×2)		64 2^(2+4)		6 (3^2)-3		108 √(√(√(3!^4!)))÷2		50 3!÷(.2×.6)	
6 (2+2)+2		66 √(√(2^4!))÷2		7 (3×3)-2		120 ((3+4)-2)!		54 (3^2)×6	
8 (2+2)×2		80 (2^4)÷.2		8 (2+3)+3		132 (4!-2)×3!		56 62-3!	
9 (2-./2)÷.2		84 42×2		9 (2×3)+3		144 (3×4)^2		60 6÷(.3-.2)	
10 √(2+2)÷.2		88 22×4		10 3!÷(.2×3)				63 √(63^2)	
11 22÷2		96 (2+2)×4!		11 (3×3)+2		2 3 5		64 (6-2)^3	
12 (2÷.2)+2		100 4÷(.2^2)		12 (3+3)×2		1 (2×3)-5		66 √(6!÷.2)+3!	
16 (2+2)^2		110 (4!-2)÷.2		14 (2^3)+3!		2 √(25)-3		70 (2^3!)+6	
20 22-2		120 24÷.2		15 (2+3)×3		3 (2^3)-5		72 36×2	
22 √(22^2)		121 (.2+4!)+.2		16 (3!×3)-2		4 (2+5)-3		78 26×3	
24 22+2		130 (2+4!)+.2		18 (2×3)×3		5 (3-2)×5		80 6!÷(3^2)	
26 (2+2)!+2		144 (4!+2)^2		20 23-3		6 (3+5)-2		81 (3+6)^2	
32 √(2^(2+2))				21 (3÷.2)+3!		7 3.5×2		90 (3×6)÷.2	
44 22×2		2 2 5		22 (3!÷.3)+2		8 √(25)+3		100 6÷(.2×.3)	
48 (2+2)!×2		1 5-(2+2)		24 (2^3)×3		9 (5-2)×3		108 (6^2)×3	
50 2÷(.2^2)		2 (2+2)×.5		25 (2+3)-2		10 (2+3)+5		120 (6^2)÷.3	
64 √(√(2^(2+2)!))		3 √(25)-2		27 (3^2)×3		11 (2×3)+5		135 √(3^6)÷.2	
100 (2÷.2)^2		4 5-(2+2)		28 √((2^3!)+(3!))!		12 (2×3)÷.5		144 6!÷(2+3)	
110 22÷.2		5 2.5×2		30 (3+3)÷.2		14 (3^2)+5			
120 (2+2)!÷.2		6 (5-2)×2		32 √(2^(3÷.3))		15 √(25)×3		2 4 4	
		7 √(25)+2		33 √(33^2)		16 3.2×5		1 2-(4÷4)	
2 2 3		8 (2×5)-2		35 32+3		18 23-5		2 2,4-./4	
1 (2+2)-3		9 (2+2)+5		36 (3+3)^2		20 (3÷.2)+5		3 (4+4)+2	
2 (3-2)×2		10 √(25)×2		40 (2+3)!÷3		21 (2+5)×3		4 (2×4)-4	
3 3,2-./2		11 2.2×5		42 (3!^2)+3!		22 25-3		5 (4-2)÷.4	
4 (2×3)-2		12 (2×5)+2		45 (3×3)÷.2		24 ((2+5)-3)!		6 24÷4	
5 √(22+3)		14 (2+5)×2		48 (2^3)×3!		25 (2+3)×5		7 (2÷.4)+√4	
6 (2^3)-2		15 √(225)		50 3÷(.2×.3)		27 32-5		8 (4-2)×4	
7 (2+2)+3		16 (2^5)+2		54 (3^3)×2		28 23+5		9 (2÷.4)+4	
8 (2×3)+2		19 (2+2)!-5		56 (2^3)!÷(3!))!		30 (2×3)×5		10 (2+4)+4	
9 3^√(2+2)		20 (2+2)×5		60 3!÷(.3-./2)		32 (3!×5)+2		11 (4!-2)÷√4	
10 (2+3)×2		22 (.2×5!)-2		63 √((3!))!÷.2)+3		33 35-2		12 (2×4)+4	
11 (3^2)+2		24 (5-./2)÷.2		64 2^(3+3)		35 (2^5)+3		14 (4×4)-2	
12 (2+2)×3		25 √(25)^2		66 33×2		36 (3÷.5)^2		15 (2+4)÷.4	
14 (3-./2)÷.2		27 22+5		70 (2^3!)+3!		40 (2^3)×5		16 (4+4)×2	
15 3!÷(.2×2)		30 (2^5)-2		72 (3!-2)!×3		42 (2+5)×3!		18 (4×4)+2	
16 32÷2		32 2^√(25)		80 (3!))!÷(3^2)		45 (3^2)×5		20 24-4	
18 (3^2)×2		35 (2+5)÷.2		81 (3×3)^2		48 (3!-2)!÷.5		21 42÷√4	
20 2÷(.3-./2)		36 (5-2)!^2		90 (3!×3)÷.2		49 52-3		22 44÷2	
21 23-2		44 22÷.5		96 32×3		50 5÷(.3-./2)		24 (2+4)×4	
22 (3!-2)!-2		48 (2+2)!÷.5		100 (3÷.3)^2		54 (5!+2)-3!		25 4÷(.4^2)	
24 (2+2)×3!		49 (2+5)^2		108 (3!^2)×3		55 52+3		28 24+4	
25 22+3		50 52-2		120 ((2^3)-3)!		56 5!-(2^3!)		30 (2+4!)+4	
27 (2+2)!+3		54 52+2		135 (3^3)÷.2		60 (2×3!)+5		32 (2×4)×4	
28 22+3!		60 (√(25))!+2		144 (3+3)!×.2		63 (5!+2)+3		36 (2+4)^√4	
30 32-2		64 (2^5)×2				64 32÷.5		40 42-√4	
32 2^(2+3)		96 5!-(2+2)!		2 3 4		66 (5!+2)+3!		42 44-2	
36 (2×3)^2		100 (2×5)^2		1 (2+3)-4		70 35×2		44 42+√4	
40 (2^3)÷.2		110 22×5		2 (2×3)-4		72 (.2×3)×5!		48 24+4!	
45 (3^2)÷.2		120 (2.5×2)!		3 (2+4)-3		75 25×3		50 4÷(.2×.4)	
48 (3!-2)!×2		121 (2+2)+5!		4 (3-2)×4		80 (2×5!)+3		55 (4!-2)÷.4	
58 √((3!))!÷.2)-2		130 (2÷.2)+5!		5 (3+4)-2		81 3^(2+5)		56 (4!+4)×2	
60 (2+3)!+2		144 (2+2)!+5!		6 (4-2)×3		84 5!-(3!^2)		60 24÷.4	
64 32×2				7 42÷3!		88 5!-32		64 (4+4)^2	
66 22×3		2 2 6		8 24÷3		90 5!-(3!÷.2)		66 42+4!	
72 (2+2)!×3		1 (6+2)-2		9 (2+3)+4		96 (2^5)×3		72 (2×4!)+4!	
75 3÷(.2^2)		2 6-(2+2)		10 (2×3)+4		100 5!÷(.2×3!)		80 (4×4)÷.2	
80 (2+2)!÷.3		3 (2-./2)÷.6		11 (2×4)+3		108 5!-(2×3!)		84 42×√4	
81 3^(2+2)		4 (2+6)+2		12 (2^3)+4		111 5!-(3^2)		88 44×2	
115 23÷.2		5 (6+2)+2		14 42÷3		120 (3-2)×5!		96 24×4	
120 (√(22+3))!		6 6,2-./2		15 (2×3)÷.4		121 (3+5!)-2		100 (4÷.4)^2	
132 22×3!		7 (2+2)+6		16 32÷√4		132 (2×3!)+5!		110 (4!-√4)÷.2	
144 (2×3!)^2		8 (6-2)×2		18 √(324)		144 (2×3)!+5		120 ((4-2)÷.4)!	
		9 (6+2)^2		20 (2+3)×4				130 (4!+√4)÷.2	
2 2 4		10 (2+2)+6		21 24-3		2 3 6		144 (2+4)×4!	
1 (2+2)+4		12 (6-2)!+2		22 (3!×4)-2		1 6-(2+3)		2 4 5	
2 4!-22		14 (2×6)+2		24 (2×3)×4		2 (2^3)-6		1 2.5×.4	
3 (2+4)+2		15 6÷(.2×2)		25 23+√4		3 (3^2)-6		2 (5-4)×2	
4 4,2-./2		16 22-6		27 23+4		4 (6+3)+2		3 (2+5)-4	
5 (2÷2)+4		18 (6^2)+2		28 32-4		5 (2+6)-3		4 (.4×5)+2	
6 (2×4)-2		20 (6-2)÷.2		30 24+3!		6 (3-2)×6		5 5!+24	
7 (2÷.4)+2		22 (6-2)!-2		32 34-2		7 (3+6)-2		6 (2×5)-4	
8 (2+2)+4		24 26-2		33 (3^2)+4!		8 2^(6-3)		7 (4+5)-2	
9 (√4-./2)÷.2		25 √(.2^(2-6))		35 (3+4)÷.2		9 (2×6)-3		8 (2^5)+4	
10 (2×4)+2		28 22+6		36 32+4		10 (2×3)÷.6		9 4.5×2	
11 22÷√4		30 (2+2)!+6		40 4÷(.3-./2)		11 (2+3)+6		10 2.5×4	
12 24÷2		32 (2^6)÷2		42 (4!-3)×2		12 (2×3)+6		11 (2+4)+5	
14 (2^4)-2		36 6^√(2+2)		45 42+3		14 (2^3)+6		12 2.4×5	
16 (2+2)×4		40 (2+6)÷.2		48 (2^4)×3		15 (2×6)+3		14 (2×5)+4	
18 22-4		48 (6-2)!×2		49 (3+4)^2		16 (3×6)-2		15 (4÷.2)-5	
20 22-√4		52 26×2		50 .4÷(.2^3)		18 36÷2		16 (2×4)÷.5	
21 42÷2		58 √(6!÷.2)-2		54 (3+4!)+2		20 (3×6)+2		18 (4+5)×2	
22 24-2		60 62-2		56 32+4!		21 (3÷.2)+6		20 √(25)×4	
24 22+√4		64 62+2		60 (3×4)÷.2		22 (6÷.3)+2		21 25-4	
25 .2^(2-4)		66 (2^6)+2		64 32×√4		24 (2+6)×3		22 (4×5)+2	
28 (2+2)+4!		72 (6^2)×2		66 (4^3)+2		25 (3÷.6)^2		24 (5-2)!×4	
30 (2+4)÷.2		120 ((6+2)+2)!		70 (3×4!)-2		27 (6÷2)^3		25 5^(4-2)	
32 (2^4)×2		132 22×6		72 24×3		28 √((2^3!)+6!)		27 54÷2	
36 (2+4)^2		144 (2×6)^2		78 (2+4!)+3		30 (2+3)×6		28 (2+5)×4	
40 42-2				80 24÷.3		32 26+3!		30 (2+4)×5	
42 √(42^2)		2 3 3		81 3^(2+√4)		33 (6^2)-3		32 (4-2)^5	
44 42+2		1 2-(3÷3)		84 √((3!))!÷.2)+4!		36 (2×3)×6			

2 4 5 (cont)

35 $(5+\sqrt{4})\div.2$
36 $(2^5)+4$
40 $(2\times4)\times5$
43 $45-2$
44 $(4! -2)\div.5$
45 $\sqrt{(45^2)}$
48 $52-4$
49 $25+4!$
50 $52-\sqrt{4}$
54 $52+\sqrt{4}$
56 $52+4$
60 $2.5\times4!$
64 $4^{\wedge}(5-2)$
69 $\sqrt{(\sqrt{(2^4)!})}\div5$
72 $(5-2)\times4!$
76 $52+4!$
80 $(2^4)\times5$
81 $(4+5)^{\wedge}2$
84 $42\div.5$
90 45×2
96 $5! -24$
100 25×4
108 54×2
110 $(4! -2)\times5$
120 24×5
121 $(.2+4!)\times5$
132 $(4!+2)+5!$
144 $24+5!$

2 4 6

1 $(2+4)\div6$
2 $(2\times4) -6$
3 $2.4+.6$
4 $24\div6$
5 $(4+6)\div2$
6 $\sqrt{(64)} -2$
7 $42\div6$
8 $(4+6) -2$
9 $(6^2)\div4$
10 $(2^4) -6$
11 $(2\div.4)+6$
12 $(2+4)+6$
14 $(2\times4)+6$
15 $(4!+6)\div2$
16 $(2\times6)+4$
18 $24-6$
20 $(4+6)\times2$
21 $4! - (6\div2)$
22 $26-4$
24 $26-\sqrt{4}$
25 $.2^{\wedge}(4-6)$
27 $(6+2)+4!$
28 $26+\sqrt{4}$
30 $24+6$
32 $64\div2$
36 $42-6$
40 $24\div.6$
42 $(2\times4!) -6$
44 $46-2$
45 $6!\div(2^4)$
48 $42+6$
50 $26+4!$
54 $(2\times4!)+6$
56 $(2\times4)! \div6!$
60 $(2^6) -4$
64 $(2-4)^6$
66 $62+4$
70 $42\div.6$
72 $(4!\times6)\div2$
75 $6\div(.2\times.4)$
80 $(2\times4!)\div.6$
81 $(6\div2)^4$
84 $\sqrt{(6!+.2)+4!}$
88 $(2^6)+4!$
90 $(6^2)\div.4$
96 $(2^4)\times6$
100 $(4+6)^{\wedge}2$
108 $\sqrt{(\sqrt{(\sqrt{(6^4!))})})}\div2$
120 $(4\times6)\div.2$
132 $(4! -2)\times6$
144 24×6

2 5 5

1 $2-(5\div5)$
2 $5\div2.5$
3 $2.5+.5$
4 $5-(.2\times5)$
5 $25\div5$
6 $(.2\times5)+5$
7 $\sqrt{(5\times5)}+2$
8 $(5+5) -2$
9 $(2\div.5)+5$
10 $\sqrt{(25)}+5$
11 5.5×2
12 $(2+5)+5$
14 $(2+5)\div.5$

2 5 5 (cont)

15 $(2\times5)+5$
16 $(2^5)\times.5$
19 $(.2\times5!) -5$
20 $25-5$
22 $(5!+5) -2$
24 $(5-.2)\times5$
25 $\sqrt{(25)}\times5$
27 $(5\times5)+2$
30 $25+5$
32 $\sqrt{(2^{\wedge}(5+5))}$
35 $(2+5)\times5$
36 $(.5-.2)\times5!$
40 $5!\div(5-2)$
42 $(2+5)!+5!$
47 $52-5$
48 $5!+2.5$
50 $25\div.5$
55 $\sqrt{(55^2)}$
60 $(\sqrt{(25)!})\times.5$
64 $(2^5)+.5$
65 $(5!\div2)+5$
68 $5! -52$
80 $5!\div(2-.5)$
84 $(.2+.5)\times5!$
88 $5! -(2^5)$
96 $5! -(.2\times5!)$
100 $(5+5)^{\wedge}2$
110 55×2
120 $(25+5)!$
121 $(.2\times5)+5!$
130 $(2\times5)+5!$
144 $((5-2)!)!\div5$

2 5 6

1 $(2+5) -6$
2 $(6-5)\times2$
3 $(2+6) -5$
4 $(2\times5) -6$
5 $\sqrt{(\sqrt{(625)})}$
6 $(.2\times5)\times6$
7 $(2\times6) -5$
8 $(6+2)+5$
9 $(5+6) -2$
10 $(2\div.5)+6$
11 $\sqrt{(25)}+6$
12 $(5-2)!+6$
14 $(6\div.5)+2$
15 2.5×6
16 $\sqrt{(256)}$
18 $(5-2)\times6$
20 $(6-2)\times5$
21 $26-5$
22 $(5+6)\times2$
24 $(2\times6)\div.5$
25 $\sqrt{(625)}$
27 $\sqrt{((2-5)^6)}$
28 $56\div2$
30 $\sqrt{(25)}\times6$
32 $(5\times6)+2$
35 $(6\div.2)+5$
36 $(5-2)! \times6$
40 $(2+6)\times5$
42 $(2+5)\times6$
46 $52-6$
48 $(6-2)! \div.5$
54 $56-2$
55 $(5+6)\div.2$
56 $\sqrt{(56^2)}$
60 $(2\times5)\times6$
63 $65-2$
64 $2^{\wedge}(.5\times6)!$
66 $(5!+2)+6$
70 $(.6\times5!) -2$
72 $(6^2)\div.5$
74 $(.6\times5!) +2$
84 $5! -(6^2)\times6$
90 $5! -(6\div.2)$
96 $(.2+.6)\times5!$
100 $5!\div(.2\times6)$
108 $5! -(2\times6)$
120 $(6-2)! \times5$
121 $(5+6)^{\wedge}2$
132 $(2\times6)+5!$
144 $(6\div.5)^{\wedge}2$

2 6 6

1 $2-(6\div6)$
2 $2.6-.6$
3 $(6\div6)+2$
4 $(6-2)!+6$
5 $6\div(.2\times6)$
6 $(2\times6) -6$
8 $\sqrt{(66-2)}$
9 $(6\div2)\times6$
10 $(6+6) -2$
12 $(6\div.6)+2$

2 6 6 (cont)

14 $(2+6)+6$
15 $6\div(.6-.2)$
18 $(2\times6)+6$
20 $26-6$
24 $(6+6)\times2$
27 $(6-.6)\div.2$
28 $\sqrt{((2^6)+6!)}$
30 $(6^2) -6$
32 $26+6$
33 $66\div2$
36 $(6+.2)+6$
40 $(6-2)! \div.6$
42 $(6^2)+6$
48 $(2+6)\times6$
50 $6\div(.2\times.6)$
54 $\sqrt{(6!+.2)} -6$
56 $62-6$
60 $(6+6)\div.2$
64 $66-2$
66 $\sqrt{(66^2)}$
70 $(2^6)+6$
72 $(2\times6)\times6$
75 $.6+\sqrt{(.2^6)}$
90 $6!\div(2+6)$
100 $(6\div.6)^{\wedge}2$
108 $\sqrt{(6^6)}\div2$
120 $(6+ (.2\times6))!$
132 66×2
144 $(6+6)^{\wedge}2$

3 3 3

1 $3^{\wedge}(3-3)$
2 $(3+3)\div3$
3 $3.3-.3$
4 $(3+3)+3$
5 $3\div(.3+.3)$
6 $(3\times3) -3$
7 $(3\div.3) -3$
8 $(3!+3)^{\wedge}3$
9 $(3+3)+3$
10 $(3! -3)\div.3$
11 $33\div3$
12 $(3\times3)+3$
14 $(3!+.3) -3!$
15 $(3\times3)+3!$
16 $(3\div.3)+3!$
18 $(3+3)\times3$
20 $(3+3)\div.3$
21 $(3! \times3)+3$
24 $(3^{\wedge}3) -3$
27 $(3\times3)\times3$
30 $33-3$
33 $(3^{\wedge}3)+3!$
36 $33+3$
40 $(3!+3!)+.3$
42 $(3! \times3!)+3!$
49 $\sqrt{((3!)!+.3)\div.3)}$
54 $(3! \times3)\times3$
60 $(3! \times3)\div.3$
64 $(3!+3)^{\wedge}3!$
66 $\sqrt{((3!)!+3!)\times3!)}$
72 $(3!^{\wedge}3)\div3$
80 $(3!)!\div(3\times3)$
81 $(3^{\wedge}3)\times3$
90 $(3^{\wedge}3)\div.3$
99 33×3
108 $(3! \times3!)\times3$
110 $33\div.3$
120 $(3\div(.3+.3))!$
121 $((3!)!+3!)+3!$
126 $((3!)!+3!)+3!$

3 3 4

1 $(4-3)^{\wedge}3$
2 $(3+3) -4$
3 $(4-3)\times3$
4 $4.3-.3$
5 $(3\times3) -4$
6 $(3\div.3) -4$
7 $(3!+4) -3$
8 $(3! \times4)\div3$
9 $(3\times4) -3$
10 $(3+3)+4$
11 $(4!+3)+3$
12 $(3! -3)\times4$
14 $(3\div.3)+4$
15 $(3\times4)+3$
16 $(3!+3)^{\wedge}4$
18 $4! -(3+3)$
20 $(3\times\sqrt{4})\div.3$
21 $(3+4)\times3$
22 $(3! \times3)+4$
24 $(3+3)\times4$
25 $3\div(.3\times.4)$
27 $(3^{\wedge}4)\div3$
28 $34-3!$

3 3 4 (cont)

30 $3\div(.4-.3)$
32 $(3! \times3!) -4$
33 $(3\times3)+4!$
35 $33+\sqrt{4}$
36 $(3\times3)\times4$
40 $43-3$
42 $(3+4)\times3!$
44 $(3!+.3)+4!$
45 $(3! \times3)\div.4$
48 $(3!+3!)\times4$
49 $43+3!$
50 $3!\div(.3\times.4)$
54 $(3!^{\wedge}3)+4$
56 $(4!+3)! \div(3!)!$
60 $3!\div(.4-.3)$
63 $(4! -3)\times3$
64 $4^{\wedge}(3! -3)$
66 $33\times\sqrt{4}$
70 $(4^{\wedge}3)+3!$
72 $(3! \times3)\times4$
77 $(4!+.3) -3$
80 $(3! \times4)\div.3$
81 $(3+4!)\times3$
84 $(3^{\wedge}4)+3$
87 $(3^{\wedge}4)+3!$
90 $(3+4!)\div.3$
96 $((3!)! \times.4)\div3$
100 $(3\div.3)^{\wedge}\sqrt{4}$
108 $(3^{\wedge}3)\times4$
120 $((3\times3) -4)!$
132 33×4
144 $(3+3)\times4!$

3 3 5

1 $(3+3) -5$
2 $3\div(.3\times5)$
3 $(3+3)\times.5$
4 $(3\times3) -5$
5 $5.3-.3$
6 $(5-3)\times3$
7 $(3!+3)+5$
8 $(5-3)^{\wedge}3$
9 $3^{\wedge}(5-3)$
10 $(3! \times5)\div3$
11 $(3+3)+5$
12 $(3\times5) -3$
14 $(3\times3)+5$
15 $(3\div.3)+5$
18 $(3\times5)+3$
20 $3\div(.3\times.5)$
21 $3.5\times3!$
22 $(3^{\wedge}3) -5$
24 $(3+5)\times3$
25 $5^{\wedge}(3!+3)$
27 $(3! \times5) -3$
28 $33-5$
30 $(3+3)\times5$
32 $35-3$
33 $(3!+5)\times3$
36 $3!^{\wedge}(5-3)$
40 $3!\div(.3\times.5)$
42 $(3!+5!)\div3$
45 $(3\times3)\times5$
48 $(3+5)\times3!$
50 $53-3$
54 $(3^{\wedge}3)\div.5$
56 $53+3$
60 $(3!+3!)\times5$
63 $\sqrt{((3!)! \times5)+3}$
64 $(3-5)^{\wedge}3!$
66 $33\div.5$
72 $(.3+.3)\times5!$
81 $(3^{\wedge}5)+3$
84 $5! -(3! \times3!)$
87 $5! -33$
90 $(3! \times3)\times5$
96 $(3!^{\wedge}3) -5!$
100 $(3! \times5)\div.3$
108 $(.3\times3)\times5!$
110 $5! -(3\div.3)$
120 $(5.3-.3)!$
121 $(3\div3)+5!$
132 $(3!+3!)+5!$
144 $(3+3)! \div5$

3 3 6

1 $(3+3)\div6$
2 $\sqrt{(36)}\div3$
3 $(3\times3) -6$
4 $(3\div.3) -6$
5 $(6\div3)+3$
6 $6.3-.3$
7 $(3\div3)+6$
8 $(6\div3)^{\wedge}3$
9 $(6-3)\times3$
10 $(3+3)\div.6$

3 3 6 (cont)

11 $(3+.6)+3!$
12 $36+3$
14 $(3!+.3) -6$
15 $(3\times3)+6$
16 $(3\div.3)+6$
18 $\sqrt{(36)}\times3$
20 $\sqrt{(36)}\div.3$
21 $63+3$
22 $(.6+3!)\div.3$
24 $(3! \times3)+6$
27 $33-6$
30 $36-3!$
33 $36-3$
36 $(3+3)\times6$
40 $(3!+6)\div.3$
42 $36+3!$
45 $(3^{\wedge}3)\div.6$
49 $\sqrt{((.3+6!)\div.3)}$
54 $(3\times3)\times6$
55 $33\div.6$
60 $63-3$
64 $(3!+3)^{\wedge}6$
66 $63+3$
69 $63+3!$
72 $(6^{\wedge}3)\div3$
80 $6!\div(3\times3)$
81 $\sqrt{(3^6)}\times3$
90 $\sqrt{(3^6)}\div.3$
108 36×3
120 $36\div.3$
121 $(3!+6!)+3!$
126 $(3\div.6)! +3!$
144 $((3!)! \times.6)\div3$

3 4 4

1 $(3-4)^{\wedge}4$
2 $3-(4+4)$
3 $3.4-.4$
4 $(4-3)\times4$
5 $(4+4) -3$
6 $(3.4-.4)!$
7 $(4+.4) -3$
8 $(3\times4) -4$
9 $(4!+4)+3$
10 $34-4!$
11 $(3+4)+4$
12 $(4-.4)\div.3$
14 $(3!+4)+4$
15 $(3\times\sqrt{4})\div.4$
16 $(3\times4)+4$
18 $(3\times4)! \div4$
20 $(3! \times4) -4$
21 $(\sqrt{(4\times4))}! -3$
22 $(4\times4)+3!$
24 $(4+4)\times3$
25 $(4!+4) -3$
27 $(\sqrt{(4\times4))}! +3$
28 $(3+4)\times4$
30 $34-4$
32 $34-\sqrt{4}$
33 $(3^{\wedge}\sqrt{4})+4!$
36 $34+\sqrt{4}$
40 $4\div(.4-.3)$
42 $(4! -3)\times\sqrt{4}$
45 $43+\sqrt{4}$
48 $(3\times4)\times4$
49 $(3+4)^{\wedge}\sqrt{4}$
50 $44+3!$
54 $(3+4!)\times\sqrt{4}$
56 $(4!+.3) -4!$
60 $(4^{\wedge}3) -4$
63 $(4!+.4)+3$
64 $\sqrt{(4\times4)}^{\wedge}3$
66 $(4^{\wedge}3)+\sqrt{4}$
70 $(3\times4!) -\sqrt{4}$
72 $(4! -3!)\times4$
77 $(3^{\wedge}4) -4$
80 $(\sqrt{(4\times4))}! \div.3$
81 $\sqrt{(3^{\wedge}(4+4))}$
84 $(4!+4)\times3$
88 $(4^{\wedge}3)+4!$
90 $(4! \times4) -3!$
96 $(3! \times4)\times4$
99 $(4! \times4)+3$
100 $(3!+4)^{\wedge}\sqrt{4}$
108 $(3+4!)\times4$
120 $((4+4) -3)!$
132 44×3
144 $(3\times4)^{\wedge}\sqrt{4}$

3 4 5

1 $(4-3)^{\wedge}5$
2 $(3+4) -5$
3 $(5-4)\times3$
4 $(3+5) -4$
5 $(4-3)\times5$

3 4 5 (cont)

6 (4+5) - 3
7 (3×4) - 5
8 (5-3)×4
9 54÷3!
10 (3-.5)×4
11 (3×5) - 4
12 (3+4)+5
14 3.5×4
15 45÷3
16 (3-5)^4
18 54÷3
20 (3+5)÷.4
21 (5+√4)×3
22 (3+4!)-5
24 (3×4)÷.5
25 (3+√4)×5
27 (4+5)×3
28 (5^√4)+3
30 (4+5)÷.3
32 (3+5)×4
33 35-√4
35 (3+4)×5
36 (5!÷3) - 4
40 (4!×5)÷3
42 45-3
44 (3!+5)×4
45 (3^√4)×5
48 43+5
49 53-4
50 (5^3)×.4
54 (4+5)×3!
55 53+√4
56 5! - (4^3)
60 (3×4)×5
63 (5!÷√4)+3
64 (3+5)^√4
66 (5!÷√4)+3!
70 35×√4
72 (.5×3!)×4!
77 53+4!
80 (3!)!÷(4+5)
81 (.5×3!)^4
84 3.5×4!
87 (4!+5)×3
90 (3×5!)÷4
96 (√4^5)×3
99 (3+5!) - 4!
100 5!÷(.3×4)
108 5! - (3×4)
110 5! - (3!+4)
120 (4-3)×5!
121 (5^3) - 4
132 (3×4)+5!
144 (.3×4)×5!

3 4 6

1 (3+4) - 6
2 4 - (6÷3)
3 √(36÷4)
4 3.4+.6
5 (3+6) - 4
6 (3×4) - 6
7 (4+6) - 3
8 (4×6)÷3
9 36÷4
10 √(36)+4
11 √(64)+3
12 (6-3)×4
14 (3×6) - 4
15 3÷(.6-.4)
16 (6÷3)^4
18 (3×4)+6
20 (3×4)÷.6
21 (4×6) - 3
22 (3×6)+4
24 √(36)×4
25 (3÷.6)^√4
27 (4×6)+3
28 34-6
30 (4+6)×3
32 36-4
33 (3+4!)÷6
35 (4!-3)÷.6
36 (3+6)×4
40 34+6
42 (3+4)×6
44 (6÷.3)+4!
45 (3×6)÷.4
48 (3!+6)×4
49 43+6
50 6÷(.3×.4)
54 (6^3)+4
56 (4!÷3)!÷6!
60 36+4!
63 √(63^√4)
64 4^(6-3)

3 4 6 (cont)

66 (3×4!) - 6
70 (4^3)+6
72 (3×4)×6
78 (3×4!)÷6
80 (4×6)÷.3
81 (3-6)^4
86 (4!÷.3)+6
87 (3^4)+6
90 36÷.4
96 (.4×6!)÷3
100 (4!+6)÷.3
108 (6^√4)×3
120 ((3+6)-4)!
132 √((3!+6!)×4!)
144 36×4

3 5 5

1 3^(5-5)
2 3 - (5÷5)
3 3.5-.5
4 3.5+.5
5 (3-.5)÷.5
6 (3.5-.5)!
7 35÷5
8 5!÷(3×5)
10 (3×5) - 5
11 (3÷.5)+5
12 3÷(.5×.5)
15 (5-.5)÷.3
16 (3+5)÷.5
18 (.3×.5)×5!
20 (3×5)+5
21 (5!+5) - 3
22 (5×5) - 3
24 (3.5+.5)!
25 5^(5-3)
27 (5!+5)+3
28 (5×5)+3
30 35-5
32 (5-3)^5
33 5.5×3!
35 (3!×5)+5
36 (√(5×5))!×.3
40 35+5
41 (.3×5!)÷5
45 (5!÷3)+5
48 53-5
49 55-3!
54 (.5×5!) - 3!
55 (3!+5)×5
60 (5+5)×3!
63 (.5×5!)÷3
66 (.5×5!)+3!
70 35÷.5
72 (3×5!)÷5
75 (3×5)×5
80 5!÷(.3×5)
84 5! - (.3×5!)
90 5! - (3!×5)
96 3÷(.5^5)
100 (5!×5)+3!
108 5! - (3!÷.5)
109 5! - (3!+5)
120 (5^3) - 5
121 (3!+5!) - 5
132 (3!÷.5)+5!
144 (3÷.5)!÷5

3 5 6

1 (6-5)^3
2 (3+5) - 6
3 (6-5)×3
4 (3+6) - 5
5 (3!+5) - 6
6 (.5×6)+3
7 (6÷3)+5
8 (5+6) - 3
9 (3×5) - 6
10 (5×6)÷3
11 √(36)+5
12 (5-3)×6
14 (3+5)+6
15 (6-3)×5
18 3.6×5
20 5!÷√(36)
21 3.5×6
22 √(3^6) - 5
24 ((3+6)-5)!
25 5^(6÷3)
27 (5×6) - 3
30 √(36)×5
32 (6÷3)^5
33 (5+6)×3
36 6^(5-3)
40 6÷(.3×.5)
42 (5!+6)÷3

3 5 6 (cont)

45 (3+6)×5
48 (3+5)×6
50 56-3!
54 √(3^6)÷.5
56 (3+5)!÷6!
60 (3!+6)×5
63 √(5×6!)÷3
64 (3-5)^6
66 (3!+5)×6
71 65+3!
72 36÷.5
78 (.6×5!)÷3!
84 5! - 36
90 (3×5)×6
96 (6^3) - 5!
100 (5×6)÷.3
108 (6^3)×.5
110 5! - (3!÷.6)
120 (.5×6!)÷3
121 (3!+6)+5!
132 (3!+5!)÷6
144 (√(36))!÷5

3 6 6

1 3^(6-6)
2 3 - (6÷6)
3 3.6-.6
4 (6+6)÷3
5 (6-3)÷.6
6 36÷6
7 (6÷.6) - 3
8 (6÷3)+6
9 (6+6) - 3
10 √(36)÷.6
11 66÷3!
12 (3×6) - 6
14 (6÷.3) - 6
15 (3+6)+6
16 (3!÷.6)+6
18 (6-3)×6
20 6!÷36
21 √(3^6) - 6
22 66÷3
24 (3×6)+6
27 √((3-6)^6)
30 36-6
33 (6×6) - 3
36 (6+6)×3
40 (6+6)÷.3
42 36+6
45 √(3^6)÷.6
54 (3+6)×6
57 63-6
60 36÷.6
63 66-3
64 (6÷3)^6
66 √((3!+6!)×6)
69 63+6
72 66+3!
80 6!÷(3+6)
105 63÷.6
108 (3×6)×6
120 (6×6)÷.3
121 (3!+6!)÷6
126 (3÷.6)!+6
144 (.6×6!)÷3

4 4 4

1 4^(4-4)
2 (4+4)÷4
3 4 - (4÷4)
4 4.4-.4
5 (4+4)+4
6 (4÷.4) - 4
7 (4!+4)÷4
8 4! - (4×4)
9 (4-.4)÷.4
10 (4!÷4)+4
11 44÷4
12 (4+4)+4
14 (4÷.4)+4
15 (4+√4)÷.4
16 4! - (4+4)
18 (4×4)+√4
20 (4×4)+4
22 44÷√4
24 (4.4-.4)!
25 4÷(.4×.4)
28 √(4×4)+4!
30 4!÷(.4+.4)
32 (4+4)×4
36 (4+√4)^√4
40 44-4
42 44-√4
44 √(44^√4)
48 44+4

4 4 4 (cont)

50 (4!-4)÷.4
55 (4!-√4)÷.4
56 (4!÷.4) - 4
60 (√(4×4))!÷.4
64 (4×4)×4
66 √(√(√4^4!))÷√4
70 (4!+4)÷.4
72 (4!×4) - 4!
80 (4!-4)×4
84 (4!÷.4)+4!
88 44×√4
96 √(4×4)×4!
100 (4!×4)+4
110 44÷.4
120 ((4÷4)+4)!
128 (4^4)÷√4
144 (4!×4!)÷4

4 4 5

1 (4-5)^4
2 4 - (.4×5)
3 (4+4) - 5
4 (5-4)×4
5 5.4-.4
6 (4÷4)+5
7 √(44+5)
8 (.4×4)×5
9 4.5×√4
10 (4-√4)×5
11 (4×4) - 5
12 (4÷.5)+4
14 (4-.5)×4
15 (4÷.4)+5
16 (4×5) - 4
18 4.5×4
20 4÷(.4×.5)
21 (4×4)+5
22 4.4×5
24 (4×5)+4
25 (4!+5) - 4
27 54÷√4
28 (5+√4)×4
30 54-4!
32 (4×4)÷.5
33 (4!+4)+5
36 (4+5)×4
40 (4+4)×5
41 45-4
44 (4×5)+4!
45 √(45^√4)
48 (.4×4!)×5
49 44+5
50 54-4
54 √(54^√4)
55 (4!÷.4) - 5
56 54+√4
60 5!÷(4-√4)
64 4÷(.5^4)
65 (4!÷.4)+5
69 45+4!
72 √(4+5)×4!
78 54+4!
80 (4×4)×5
81 (4+5)^√4
84 (4-.5)×4!
88 44÷.5
90 45×√4
96 (.4+.4)×5!
100 (4!-4)×5
108 54×√4
110 5! - (4÷.4)
120 (5.4-.4)!
121 (4÷4)+5!
132 (4!÷√4)+5!
144 (4!×5)+4!

4 4 6

1 6^(4-4)
2 (4+4) - 6
3 4 - (.4+.6)
4 √(64) - 4
5 4.4+.6
6 6.4-.4
7 (4÷4)+6
8 (6-4)×4
9 (6^√4)÷4
10 (4×4) - 6
11 (6÷.4) - 4
12 √(64)+4
14 (4+4)+6
15 6÷√(.4×.4)
16 64÷4
18 √((6^4)÷4)
20 (4×6) - 4
21 4! - (6÷√4)
22 (4×4)+6

4 4 6 (cont)

24 √(4×4)×6
25 (4+6)÷.4
27 (6÷√4)+4!
28 (4×6)+4
30 (6×√4)÷.4
32 √(64)×4
36 (4!×6)÷4
40 (4+6)×4
42 46-4
44 46-√4
45 6!÷(4×4)
48 (4+4)×6
50 44+6
54 (6^4)÷4!
56 (4+4)!÷6!
60 64-4
64 (4-√4)^6
66 64+√4
70 46+4!
72 (4!-6)×4
75 (4!+6)÷.4
80 (4!+4!)÷.6
81 (6÷√4)^4
88 64+4!
90 (4!×4) - 6
96 (4×4)×6
100 (4+6)^√4
108 √(√(√(6^4!)))÷4
120 (4.4+.6)!
132 (4!-√4)×6
144 (6^√4)×4

4 5 5

1 (5-4)^5
2 (5-4)÷.5
3 4 - (5÷5)
4 4.5-.5
5 4.5+.5
6 (5+5) - 4
7 √(54-5)
8 .5+ (.5^4)
9 45÷5
10 (.4×5)×5
11 5.5×√4
12 (5÷.4) - .5
14 (4+5)+5
15 (4×5) - 5
16 4÷(.5×.5)
18 (4+5)÷.5
20 (5!÷5) - 4
21 (5×5) - 4
22 5.5×4
24 (4.5-.5)!
25 (4×5)+5
27 5.4×5
28 (5!+5)+4
30 (5^√4)+5
32 (.4×5)^5
35 (5!÷4)+5
36 (.5×5!) - 4!
40 45-5
42 (5+√4)!÷5!
45 (4+5)×5
48 (5!÷5)+4!
49 54-5
50 45+5
55 √(55^√4)
56 (.5×5!) - 4
60 (.5×4!)×5
64 (.5×5!)÷4
66 5! - 54
72 (4!+5!)×.5
79 55+4!
80 5÷(.5^4)
84 (.5×5!)÷4!
88 5! - (√4^5)
90 45+.5
96 (4×5!)÷5
100 (4×5)×5
108 54+.5
110 55×√4
120 (4.5+.5)!
121 (5!+5) - 4
132 5.5×4!
144 (√(5×5))!+4!

4 5 6

1 (4-5)^6
2 (4+6)÷5
3 (4+5) - 6
4 (6-5)×4
5 (4+6) - 5
6 5.4+.6
7 (5+6) - 4
8 (.4×5)+6
9 54÷6

4 5 6 (cont)

10	(6-4)×5
11	(5-.6)÷.4
12	(.4×5)×6
14	56÷4
15	(4+5)+6
16	6!÷45
18	√(54×6)
20	(4+6)÷.5
21	(4-.5)×6
22	(6-.5)×4
24	(5!÷6)+4
25	5^(6-4)
27	4.5×6
28	56÷√4
30	6÷(.4×.5)
32	6.4×5
35	(4!+5)+6
36	6^(.4×5)
40	√(64)×5
42	(5+√4)×6
44	(5+6)×4
45	(4!÷.6)+5
48	54-6
50	(4+6)×5
54	(4+5)×6
56	5!-64
60	54+6
63	65-√4
64	(.4×5)^6
66	(5!÷√4)+6
70	(.6×5!)-√4
72	(.5×4!)×6
76	(.6×5!)+4
80	56+4!
81	(.5×6)^4
84	5!-(6^√4)
89	65+4!
90	54÷.6
96	6÷(.5^4)
100	5!÷(.6×√4)
108	5!-(6×√4)
110	5!-(4+6)
120	(4×5)×6
121	(5+6)^√4
132	(6-.5)×4!
144	(4×6)+5!

4 6 6

1	4^(6-6)
2	√(64)-6
3	(6+6)÷4
4	4.6-.6
5	(6÷6)+4
6	(4+6)×.6
7	6.4+.6
8	(6+6)-4
9	(6×6)÷4
10	(4!÷6)+6
12	(6-4)×6
14	√(64)+6
15	√(6×6)÷.4
16	(4+6)+6
18	(4×6)-6
20	(6×√4)÷.6
21	(6÷.4)+6
24	(4.6-.6)!
25	6÷(.4×.6)
27	√((6÷√4)^6)
28	√(64+6!)
30	(4×6)+6
32	(6×6)-4
33	66÷√4
36	6^(6-4)
40	46-6
42	66-4!
46	(4!÷.6)+6
48	(6+6)×4
50	(4!+6)÷.6
54	√(6^6)÷4
56	(√(64))!÷6!
60	(4+6)×6
64	(4-6)^6
66	√(66^√4)
70	64+6
72	6!÷(4+6)
90	66+4!
96	(6!÷6)-4!
100	(6÷.6)^√4
108	(4!-6)×6
120	((6÷6)+4)!
132	66×√4
144	(4×6)×6

5 5 5

1	5^(5-5)
2	(5+5)÷5

5 5 5 (cont)

3	(.5×5)+.5
4	5-(5+5)
5	5.5-.5
6	5.5+.5
9	(5-.5)÷.5
10	√(5×5)+5
11	55÷5
12	5!÷(5+5)
15	(5+5)+5
16	.5÷(.5^5)
19	(5!÷5)-5
20	(5×5)-5
23	(5!-5)÷5
24	(5-(5÷5))!
25	(5!+5)÷5
29	(5!÷5)+5
30	(5×5)+5
48	5!÷(.5×5)
50	55-5
55	(.5×5!)-5
60	55+5
65	5!-55
95	5!-(5×5)
96	5!-(5!÷5)
110	55÷.5
120	(5.5-.5)!
121	(5÷5)+5!
130	(5!+5)+5
144	(5!+5)+5!

5 5 6

1	(6-5)^5
2	5-(.5×6)
3	√(5×5)×.6
4	(5+5)-6
5	(6-5)×5
6	6.5-.5
7	6.5+.5
8	(.5×6)+5
10	(.5×5!)+6
11	(6-.5)÷.5
12	(.6-.5)×5!
15	(.5×5)×6
16	(5+5)+6
18	(5!+5)-6
20	(√(5×5))!÷6
22	(5+6)÷.5
24	6÷(.5×.5)
25	(5×6)-5
27	(5-.5)×6
28	5.6×5
30	(5!+5)+6
32	.5÷(.5^6)
33	5.5×6
35	(5×6)+5
36	(.5×.6)×5!
40	5!÷(.5×6)
48	5!-(.6×5!)
49	55-6
50	5÷(.6-.5)
54	(.5×5!)-6
55	(5+6)×5
60	65-5
63	(5!+6)×.5
64	5!-56
66	(.5×5!)+6
70	65+5
72	6!÷(5+5)
77	(.6×5!)+5
80	(5!÷.6)-5!
90	5!-(5×6)
100	(5!×5)+6
108	5!-(6+.5)
109	5!-(5+6)
120	(6-5)×5!
121	(5!+6)-5
132	(6+.5)+5!
144	(5!×6)÷5

5 6 6

1	(5-6)^6
2	6÷(.5×6)
3	6-(.5×6)
4	5-(6÷6)
5	5.6-.6
6	(6-5)×6
7	(6+6)-5
9	(.5×6)+6
10	5!÷(6+6)
11	√(6×6)+5
12	(.5×6)!+6
14	(5!+6)-6
15	(6÷.6)+5
18	(6+.5)+6
20	6÷(.5×.6)
21	(5!+6)÷6

5 6 6 (cont)

24	(5×6)-6
27	(6-.6)×5
30	√(6×6)×5
33	6.6×5
36	(5×6)+6
41	(6×6)+5
48	6÷√(.5^6)
50	56-6
54	5!-66
60	(6+6)×5
62	56+6
66	(5+6)×6
71	65+6
72	(6×6)÷.5
78	(.6×5!)+6
84	5!-(6×6)
90	√(.5^6)×6!
96	√(6^6)-5!
100	5!÷(.6+.6)
108	5!-(6+6)
110	5!-(6÷.6)
120	(5.6-.6)!
121	(6+6)+5!
132	66+.5
144	(.6+.6)×5!

6 6 6

1	6^(6-6)
2	(6+6)÷6
3	(.6×6)-.6
4	(6÷.6)-6
5	6-(6÷6)
6	6.6-.6
7	(6÷6)+6
9	(6-.6)÷.6
10	√(6×6)÷.6
11	66÷6
12	√(6×6)+6
16	(6÷.6)+6
18	(6+6)+6
20	(6+6)÷.6
24	((6÷.6)-6)!
30	(6×6)-6
36	√(6×6)×6
42	(6×6)+6
60	66-6
66	√((6!+6)×6)
72	66+6
110	66+.6
120	(6-(6÷6))!
121	(6!+6)÷6
126	(6!÷6)+6