

Supported Formulas

Basics

- 2d6 -- roll 2 dice of 6 sides

Special dice variations

- 4dF -- roll 4 fudge dice (sides: [-1, -1, 0, 0, 1, 1])
- 1d% -- roll 1 percentile dice (equivalent to 1d100)
- 1D66 -- roll 1 D66, aka $1d6^*10 + 1d6$
 - **NOTE:** you *must* use uppercase D66, lowercase d66 will be interpreted as a 66-sided die

Exploding dice

- 4d6! -- roll 4 6-sided dice, explode if max (6) is rolled (re-roll and include in results)
 - 4d6 !=5 or 4d6!5 -- explode a roll if equal to 5
 - 4d6 !=>4 -- explode if >= 4
 - 4d6 !=<2 -- explode if <=2
 - 4d6 !=>5 -- explode if > 5
 - 4d6 !=<2 -- explode if <2
 - To explode only once, use syntax !o
 - 4d6 !o<5

Compounding Dice (Shadowrun, L5R, etc.)

Like exploding, but additional rolls for each dice are added together as a single "roll"

- 5d6 !! -- roll 5 6-sided dice, compound
 - 5d6 !!=5 or 5d6!5 -- compound a roll if equal to 5
 - 5d6 !!>=4 - compound if ≥ 4
 - 5d6 !!<=4 - compound if ≤ 4
 - 5d6 !!>5 - compound if > 5
 - 5d6 !!<3 - compound if < 3
 - To compound only once, use syntax !!o
 - 5d6 !!o<2

Rerolling Dice

- 4d4 r2 -- roll 4d4, re-roll any result = 2
- 4d4 r=2 -- roll 4d4, re-roll any result = 2
- 4d4 r<=2 -- roll 4d4, re-roll any ≤ 2
- 4d4 r>=3 -- roll 4d4, re-roll any ≥ 3
- 4d4 r<2 -- roll 4d4, re-roll any < 2
- 4d4 r>3 -- roll 4d4, re-roll any > 3
- To reroll only once, use syntax ro
 - 4d4 ro<2

Keeping & Dropping Dice

- keeping dice:
 - 3d20 k 2 -- roll 3d20, keep 2 highest
 - 3d20 kh 2 -- roll 3d20, keep 2 highest
 - 3d20 kl 2 -- roll 3d20, keep 2 lowest
- dropping dice:
 - 4d6 -H -- roll 4d6, drop 1 highest
 - 4d6 -L -- roll 4d6, drop 1 lowest
 - 4d6 -H2 -- roll 4d6, drop 2 highest
 - 4d6 -L2 -- roll 4d6, drop 2 lowest

- 4d6 ->5 -- roll 4d6, drop any results > 5
- 4d6 -<2 -- roll 4d6, drop any results < 2
- 4d6 ->=5 -- roll 4d6, drop any results >= 5
- 4d6 -<=2 -- roll 4d6, drop any results <= 2
- 4d6 ==1 -- roll 4d6, drop any results equal to 1
- NOTE: the drop operators have higher precedence than the arithmetic operators; 4d10-L2+2 is equivalent to (4d10-L2)+2
- NOTE: drop is not subtraction.
 - 4d6 - 3 -- roll 4d6, subtract 3
 - 4d6 - 2d6 -- roll 4d6, subtract the result of rolling 2d6

Round, Cap and Clam

- cap/clamp:
 - 4d20 C<5 -- roll 4d20, change any value < 5 to 5
 - 4d20 C>15 -- roll 4d20, change any value > 15 to 15

Counting on Dice Rolls

- counting:
 - 4d6 # -- how many results?
 - For example, you might use this to count # of dice above a target. (5d10 -<6)#
 - roll 5 d10, drop any less than 6, count results
 - 4d6 #>3 -- roll 4d6, count any > 3
 - 4d6 #<3 -- roll 4d6, count any < 3
 - 4d6 #>=5 -- roll 4d6, count any >= 5
 - 4d6 #<=2 -- roll 4d6, count any <= 2
 - 4d6 #==5 -- roll 4d6, count any equal to 5
- counting (critical) success/failures
 - A normal count operation # discards the rolled dice and changes the result to be the count
 - For example, 2d6#<=3 rolls [3,4] then counts which results are <=3 , returning [1]
 - But, sometimes you want to be able to count successes/failures without discarding the dice rolls. In this case, use modifiers #s, #f, #cs, #cf to add metadata to the results.

- 6d6 #f<=2 #s>=5 #cs6 -- roll 6d6, count results <= 2 as failures, >= 5 as successes, and =6 as critical successes.
 - returns a result like: RollResult(total: 22, results: [6, 2, 1, 5, 3, 5] {failures: {count: 2, target: #f<=2}, successes: {count: 3, target: #s>=5}, critSuccesses: {count: 1, target: #cs6}})

Arithmetic operations

- arithmetic operations
 - parenthesis for order of operations
 - addition is a little special -- could be a sum of ints, or it can be used to aggregate results of multiple dice rolls
 - Addition of integers is the usual sum
 - 4+5
 - 2d6 + 1
 - Addition of roll results combines the results (use parenthesis to ensure the order of operations is what you desire)
 - (5d6+5d10)-L2 -- roll 5d6 and 5d10, and from aggregate results drop the lowest 2.
 - 5d6+5d10-L2 -- roll 5d6 and 5d10, and from only the 5d10 results drop the lowest 2. equivalent to 5d6+(5d10-L2)
 - * for multiplication
 - - for subtraction
 - numbers must be integers
 - division is not supported.

Thanks, keep in touch!

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