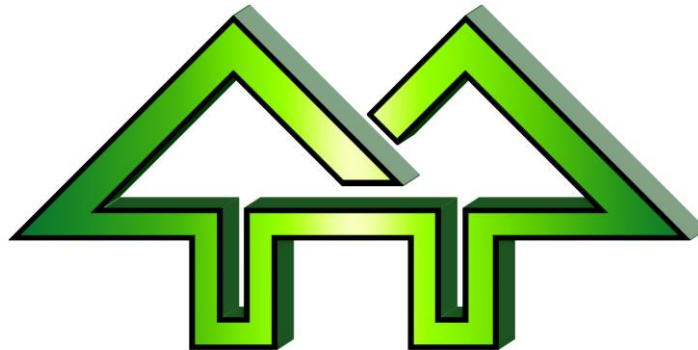


Instructions for

# Using Formulas in Winfree

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# 1 Using Formulas

## 1.1 Introduction

**Formulas** (or “formulae” if you’re an English major) **can be entered wherever a score can be entered.**

For example, scores could be:

- $5.6 -.6$  Mogul turns and line of 5.6, with deductions of .6
- $1.1 + 3.4 + 1.7$  Overall aerial scoring for Height and Distance of 1.1, Form of 3.4, and Landing of 1.7
- Same aerial scoring as above, but by sub-components (Takeoff, etc.)

## 1.2 Helping the judges with Math

Optionally, the judges might want help with math. If not, don’t worry about this and skip to Section 2 of this document.

If they do, you can offer to do all the math for them

- $5.6 -.2 -.4$  Mogul turns and line of 5.6, with deductions of .2 and .4
- $1.1 + 3.4 + 1.7$  Overall aerial scoring for Air of 1.1, Form of 3.4, and Landing of 1.7
- $1.0+0.1 + 1.5+1.5+1.4-1.0 + 1.0+.7$  Same aerial scoring as above, but by sub-components (Takeoff, etc.)

This means that judges never need to do arithmetic, increasing the speed of on-hill scoring and reducing the chance of math errors.

## 1.3 Parenthesis

**Parentheses are optional.** They are the standard math format, and are used to **make it clearer which numbers go with which “components”**. For example

- $5.6 + (-.2 -.4)$  Mogul turns and line of 5.6, with deductions of .2 and .4
- $5.6 - (.2 + .4)$  Mogul turns and line of 5.6, with deductions of .2 and .4 (same as above)
- Overall aerial scoring for  
 Air (Takeoff of 1.0, Height/Distance of 0.1), plus  
 Form (Positions of 1.5, 1.5, and 1.4, with a deduction of 1.0)  
 Landing (Touchdown of 1.0, Exit of .7)

When you enter **scores without parenthesis**, such in the examples above, **Winfree automatically changes them to the clearer parenthesized format** shown in Section 1.2.



## 2 Scoring

### 2.1 Use of Components in Aerials and Moguls

The total score calculation in **FIS aerials and moguls** uses the components for Moguls and Aerials, rather than the total for each judge. This is only true for Moguls when there are 4 or more, or Aerials when there are 6 or more judges. As a result, **you must enter each component in this case.**

There are 2 components in moguls:

- **Turns and Line**            Basic score
- **Deductions**                All reductions in basic score (optional)

There are 3 components in aerials:

- **Air**                            Score for Air (including Takeoff and Height/Distance)
- **Form**                         Score for all Air (including all Positions and a deduction)
- **Landing**                     Score for Landing (including Touchdown and Exit)

In FIS moguls and aerials, you must enter the correct number of components:

- For **FIS aerials**, there must be **exactly 3 components (e.g., "1.7+2.5+1.7")**. Anything else will produce an error.
- For **FIS moguls**, there must be **exactly 1 component if there are no deductions (e.g., "4.5")** and **exactly 2 components when there are deductions (e.g., "4.5-1.2")**. Anything else will produce an error.

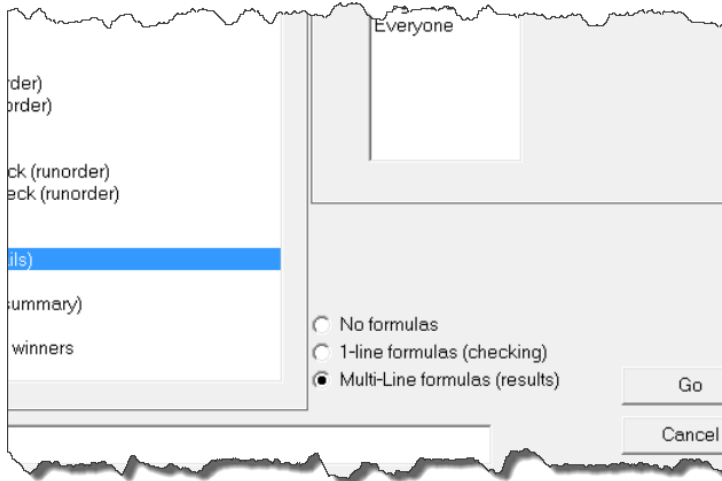
### 2.2 Use of Components in Slopestyle

Components can be used in Slopestyle to give a score to each feature (e.g., "12+6+22+17" for 4 features). This allows the competitors to see how they scored on each feature, how the judges rated them, and the feature totals.



### 2.3 Listings

There are 3 listings:



“No formulas” will produce a listing similar to those in the past, with only judges’ totals. This produces less paper, but does not allow the judges or competitors see the components.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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Aerials Run 1                      Run                      Date: Oct 27, 201  
 Female/Male                      (By Score)                      Time: 3:17 pm  
 Formulas                      Formulas

---

No	Bib Name	Gp	Rep	J.1	J.2	J.3	J.4	J.5	Judge	Manuvr
1	1 AA	M11	Mid	4.0	3.5	3.6	3.6	3.0	10.40	bL



“1-Line formulas” will put the formulas in a single line below each result. This can be handy for checking.

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Aerials Run 1          Run          Date: Oct 27, 201
Female/Male          (By Score)         Time: 3:15 pm
Formulas             Formulas
-----

```

No	Bib Name	Gp	Rep	J.1	J.2	J.3	J.4	J.5	Judge	Manuvr
1	1 AA	Mll	Mid	4.0	3.5	3.6	3.6	3.0	10.40	bL
				J.1=1.0+2.0+1.0=4.0, J.2= 5+1.5+1.5=3.5, J.3= 8+.8+2.0=3.6, J.4=.9+.9+1.8=3.6, J.5=1.0+1.0+1.0=3.0						

“Multi-Line formulas” will put one component per line, with high and lows deleted.

\_\_\_\_\_

```

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Aerials Run 1          Run          Date: Oct 27, 201
Female/Male          (By Score)         Time: 3:14 pm
Formulas             Formulas
-----

```

No	Bib Name	Gp	Rep	J.1	J.2	J.3	J.4	J.5	Judge	Ma
1	1 AA	Mll	Mid	<del>1.0</del>	<del>5</del>	.8	.9	1.0	2.7	
				<del>+2.0</del>	+1.5	<del>+1.8</del>	+ .9	+1.0	3.4	
				<del>+1.0</del>	+1.5	<del>+2.0</del>	+1.8	+1.0	4.3	
				=4.0	=3.5	=3.6	=3.6	=3.0	10.40	

Winfree 2017.05, A Rules, Rand=0, A, Not Elim

