

Ice Skating Competition Timing Application

This application consists of 3 different worksheets within the one spreadsheet :

- **Timing Matrix**
- **Timetable Build Matrix**
- **System Worksheet**

The competition timing matrix is used to calculate the approximate running time for each event and it then can be used to build daily timetables automatically with the minimum of input.

Having previously defined the announcement time for each skater and their marks, the length of time to carry out a resurface and the programme duration, the spreadsheet will calculate an actual time that is then rounded up to the nearest 5 minutes. These rounded time are then used when building the overall Competition Timetable.

It should be noted that certain cells of the **Timing Matrix** are protected i.e. you cannot change the data of formula contained in them.

REMEMBER to save the Spreadsheet each time you make changes!

THE TIMING MATRIX

The matrix consists of 15 columns as follows:

Comp Ref. (col 1) column is **unprotected** and entries can be changed

This is just a number(and letter) which is given to each event as a reference. Before using the Timing Matrix, the standard of each event needs to be defined and given a reference number. e.g "Junior Pairs Long" with a reference number of "JPL".

Long & Short Programmes

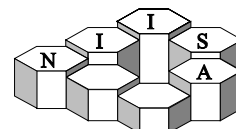
When dealing with events that have a long and short programme, you should create 3 entries.

If we have an Junior Ladies event then the entries which should be created are as follows:

"JL" "Junior Ladies"
"JLS" "Junior Ladies Short"
"JLL" "Junior Ladies Long"

The first of these is purely for description only. The second and third are self-explanatory as each programme has to be timed.

The 4 bottom rows of the matrix should be **on no account** deleted or changed. These are the rows with "LR", "R", "B" and <nothing> in column 1.



Comp Standard (col 2) column is **unprotected** and entries can be changed

This column just holds the standard description of the event – Primary Pairs or Junior Ladies.

No.of Skaters (col 3) column is **unprotected** and entries can be changed

This column holds the number of skaters in each event. Remember that events with short & long programmes are entered twice.

Group Makeup (col 4) column is **protected** and entries cannot be changed

In another part of the spreadsheet, there is another table called **GROUPSIZE** that holds the number of skaters in an event (from 1 to 36), the group makeup and the number of groups.

When the **No.of Skaters** is entered in column 3, the formula in column 4 uses the number of skaters to look up this other table and then place the result in the appropriate cell. e.g if there were 19 skaters then **1x4 3x5** would be shown in the cell.

No.of Warmup Groups (col 5) column is **protected** and entries cannot be changed

As in the previous column, depending on the Number of Skaters entered, the formula in this cell looks up the number of Warmup Groups in the other table and displays the Number of Warmup Groups in the cell.

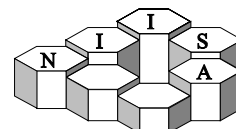
e.g if there were 19 skaters then 1x4 3x5 would be shown in the column 4 and the Number of Warmup Groups as **4** (column 5)

Event Duration (col 6) this column is **unprotected** and entries can be changed

This column just holds the duration of each event. **The cells are unprotected but you should be careful when entering event durations.** If the event in a particular competition or championships will not change, then this column can be protected.

Group Warmup Time (col 7) this column is **protected** and entries cannot be changed

The total group warmup time is shown here. It is calculated by **6 * column 5** which is 6 minutes multiplied by the Number of Warmup Groups. This applies for both short & long programmes



Total Skating Time (col 8)

this column is **protected** and entries cannot be changed

The value in each cell is just the Number of Skaters in the Event multiplied by The Event Duration.

No.of Cuts during Comp (col 9)

this column is **unprotected** and entries can be changed

This is a new column I have added to take account of a Championship Event or similar where there are sufficient skaters to have an ice resurface in the middle of the event. The value here would normally be 0 (zero) but in a championship would probably not exceed 1.

Total Cut Time (col 10)

this column is **protected** and entries cannot be changed

The value here is the **No. of Cuts during Comp** multiplied by the time taken for an Ice Resurface (Cut) - nominally 20 minutes but this can vary from rink to rink.

The resurface/cut time is entered in the unprotected cell **D3** on the worksheet headed **System Tables**. It is entered here as it is also used when building the daily timetables.

Announce Time (col 11)

this column is **protected** and entries cannot be changed

The value here is the Number of Skaters multiplied by the Announcement Time for 1 skater.

This time, I suspect, will vary from rink to rink and from South to North of UK. We in N.I. tend to speak more quickly than people in Scotland and England. However this is a value that should be checked during a simple club competition. The value of 1.75 minutes per skater has been arrived at over 5/6 years and it includes :

The announcement of the event - "The next event is the Arbuthnot Trophy for Prelim Girls. Would the first warmup group please take to the ice. Laura Perrins, Kelly Barlow, Piper Laurie etc."

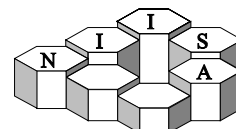
"Your warmup time is over, would all skaters please leave the ice. The first skater is Sara Brown from"

"The [<nothing>/technical/presentation] marks for Sara Brown are as follows:" [TWICE]

"That now concludes this event."

For an event with 7 or 9 judges a value of 2 minutes perhaps should be used!

It is perhaps wise to err on the high side, as people tend to be happier with an event finishing slightly early than slightly late.



Manual Time Adjust. (col 12) this column is **unprotected** and entries can be changed

This permits the inclusion of a manual time adjustment for whatever reason. This will be added into the **est. Total Time (col 13)** column

Est. Total Time (col 13) this column is **protected** and entries cannot be changed

This is just the sum of Manual Time Adjust., Announce Time, Total Cut Time, Total Skating Time and Group Warmup Time (col 12 + col 11 + col 10 + col 8 + col 7).

Rounded time for Timetable (col 14) this column is **protected** and entries cannot be changed

The formulae in the cells in this column round up the respective cell totals to the nearest 5 minutes. It is the time in this column that is used when building the daily timetables.

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TIMETABLE BUILD MATRIX

I have included 6 Daily Timetable Matrices each of which can be easily made blank.

Each Matrix is protected with the exception of an **unprotected date cell** for the day & date to which the constructed timetable refers and an **unprotected cell at the top left of the matrix** in which you can enter the daily start time of competition (in decimal format e.g. 8.30am should be entered as 8.5). In addition, the cells in the first column headed **Comp No.** are all unprotected.

Before you build a time your timetable, you should have a basic idea of the order in which the events will take place.

In the first blank cell in the **Comp Ref.** column, enter the required **Comp Ref.** of the first event, as entered in the Timing Matrix.

What actually happens when you enter a **Comp Ref.** is that the application takes the value entered and looks up the Timing Matrix and returns the Description of the Event and the Rounded Estimated Time. The application takes the time and adds it to the start time previously entered and displays the Event Start and Finish Times using the 24 hr clock.

It is just a matter of entering the **Comp Refs** of each the required events in subsequent cells and the timetable will be built automatically.

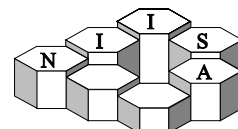
There is a slight anomaly with the Timetable Matrix that crops up from time to time and I am not quite sure what the cause is. If when the Rounded time for the event is added to the Event Start Time and the

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total of the minutes is 60 then sometimes it is displayed as 60. This just looks odd but I don't think that it affects the remainder of the matrix.

There are a few **Time Related Codes** that can be used when building a timetable as follows:


- B - Break - useful if changing a judging panel fro example.
- R - Resurface between events
- LR - Lunch and Resurface between Events

Just enter B or R or LR and the time will be automatically picked up.

If the timetable is not 'shaping up' the way you thought, then it is just a matter of over-typing the Comp No with another **Comp Ref.** or **Time Related Codes** until you achieve a satisfactory timetable.

The end of the Timetable is slightly messy, as at I do not know the number of Events, breaks, resurfaces etc which any comp will have. Normally I would then print this out and present it in a more formal manner using a WP package. You can however save the spreadsheet under a different name so as to preserve your work and delete any unwanted rows at the bottom of the daily timetables.

To print the daily timetables:

- click on the **Name Box** dropdown menu at the left of the **Formula Bar** and select **prtAllDailyTimetables** - this will select a range containing all the daily timetables.
- now click on the <File> menu and select **Print Area**. Then **Set Print Area** from the submenu. This will set the current print area.
- Click on the **Print Preview** button the menu bar.  The document will be displayed.
- The buttons at the top of the display now allow you to navigate forward and back through the pages.
- Using the <Setup...> button, you can change the margins of your document and also add various pieces of text toi the header and footer of each page. I.e. Titles, Dates, Page Numbers
- When you are ready to print, just click on the <Print...> button.

If you have tried to construct timetables using SPAR (sharp pencil and rubber) you will appreciate the time saving.

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