

Mathe tics



Mathematics are part of our everyday life. Numbers and figures are all around us. I am interested and involved in the GAA. I play for **Newry Shamrocks** and I am a **Down Supporter** . I would like to show how numbers are important on the pitch and off the pitch. There are a few basic facts on how mathematics are central in the rules.

Match Time

A juvenile game is 50 minutes and a senior game is [club] 60 minutes and [inter county] 70 minutes. There is also additional time

which is about 2-5 minutes.



Player Lineout

Numbers on players: The numbers reflect what position you are playing in the field. The goalkeeper [1] to the corner forward [15].

- Nos 1,3,5,7,9,11,13,15 are odd numbers
- Nos 2,4,6,8,10,12,14 are even number
- Nos 2,3,5,7,11,13 are prime numbers
- Nos 1, 4, 9 are square numbers



Stadiums

Our National Stadium is Croke Park in Dublin , approximately 70 miles from Newry.



It is the 3rd largest stadium in Europe.

It has been used to host GAA games from 1884. (over 132 years old)

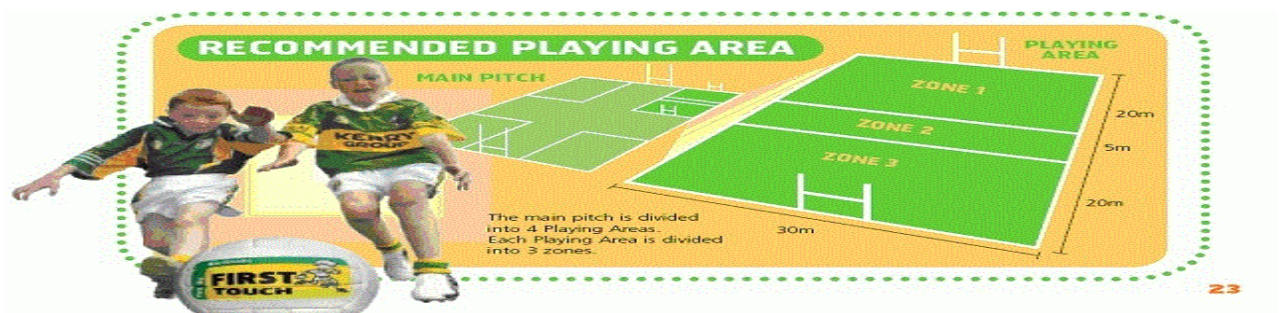
The stadium has a capacity for safety issues. Croke Park has the biggest capacity with 82,300. Pairc Esler has a 20,000 capacity.

- There are 2,610 GAA clubs in the World [2015].
- There are 2319 GAA clubs in Ireland [2015].
- There are 50 GAA clubs in Down.

What is the shape of a GAA pitch?

The shape of a GAA pitch is a rectangle. The perimeter of Croke Park measures 144 by 86 metres which exceeds soccer and rugby pitches. Pairc Esler measures 138 by 81 metres.

- The ball is a sphere
- There are 2 squares and a semi-circle at the goal mouth area.
- There are 5 horizontal lines which divide the pitch into $5 \times 1/5 = 1$ whole pitch .
- There are 2 goal posts. Each has 2 vertical poles and 1 horizontal crossbar.



The All Ireland Championship

The Championship is divided into 4 provinces.

1. **Connacht:** Mayo, Galway, Roscommon, Sligo, Leitrim,(London and New York)also compete = *7 County teams*
2. **Leinster:**Dublin, Kildare, Westmeath, Meath, Wexford, Wicklow, Offaly, Longford, Laois, Louth, Carlow, (Kilkenny are in Leinster but don't compete in football) = *11 County Teams.*
3. **Munster:**Kerry, Cork , Clare, Tipperary, Limerick and Waterford = *6 County teams.*
4. **Ulster:**Tyrone, Donegal, Monaghan, Down, Armagh, Fermanagh,Antrim, Cavan, Derry = *9 County teams*



The GAA scoring system

In Gaelic football and hurling there are two types of score a goal and a point. If you hit the ball over the bar and between the posts it counts as 1 point. If you hit the ball under the bar and into the net it counts a 3 points.

In the 2015 All- Ireland hurling final the score was Kilkenny 1-22 [25] to Galway 1-18 [21]. In the All- Ireland football final the score was Kerry 0-09 [9] to Dublin 0-12[12].

LEAGUE TABLE								
POS	TEAM	P	W	L	D	F	A	POINTS
1	DUBLIN	4	4	0	0	81	48	8
2	TYRONE	4	3	1	0	53	51	6
3	KILDARE	4	3	1	0	63	66	6
4	DONEGAL	4	2	2	0	55	49	4
5	CORK	4	2	2	0	62	65	4
6	DOWN	4	1	3	0	51	58	2
7	MAYO	4	1	3	0	56	57	2
8	KERRY	4	0	4	0	31	58	0

Conclusion

I have tried to show how central maths is in the GAA. When I'm outside and my Mummy says: "You're playing too much football". I will reply : "I'm doing **matheGAAtics**!!!!!"



The End

By Terry Rafferty