

The story is that in 1823 pupils at Rugby School in England were playing football and a boy called William Webb Ellis grabbed the ball in his hands and ran at the opposition. This caught on and became rugby football.

South Africa



WORLD CUP

Cup there are 4

pools (A,B,C,D).

Ireland is in pool B.

Scotland



The top two in each group (8 teams) go into the quarterfinals for the knockout stage.

once.

group?

How many games are there in the knockout stage? (There is a game between the two beaten semi-finalists to find 3rd Place team).

In the pool stages, each team must play each other team in the group

How many games are needed in each

Tonga

Ireland

The Rugby World Cup

takes place every 4 years.

The men's world cup takes place in fine men's world cup takes place in France from 8 September to 28 October 2023. The next women's world cup takes place in England in 2025. Romania

A try is 5 points. If you score a try you get to take a conversion kick, which if it goes between the posts and above the crossbar gives 2 points. You can also kick penalty goals and drop goals both of which give 3 points.

How many different ways are there for a team to score 12 points?

Maths is useful in all sports. There are obvious things like counting the scores. But maths is also used to keep track of





female playing rugby was Emily Valentine who played at the age of 10 in 1887 at Portora Royal School in Enniskillen, Co. Fermanagh.

The Irish Women's Rugby Football Union was established in 1991 and the first women's World Cup took place in the same year



The Rugby World Cup trophy is called the Webb Ellis Cup



ZONES

France and South Africa are 1 hour ahead of Ireland and Britain

Tonga is 11 hours ahead of France and South Africa

Romania is **1 hour** ahead of France and South Africa

The first match, Ireland v Romania is on 9th September at 3:30pm (in

What time will the match be shown live here?

What time will people in the other pool countries see it live?

For more facts on Maths & Sports. check out













THE IRISH TIMES







Supported by









AZ Matho Week Poster (bish Tirseo 3000) indd 1

In rugby and a lot of sports players wear

GPS trackers which can

fast they move, how hard

they are working and the managers can see this

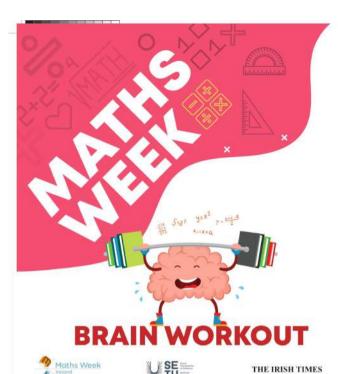
Maths Week

Ireland

information on a screen

during the match.

be seen as a bump on the back of the jersey. Maths is used to track the players and tell how



Welcome to our Irish Times Rugby ages that you can enjoy on your own or do with friends.

Maths Week Ireland takes place this year from 14-22 October 2023. A basic proficiency in maths is necessary in daily life yet many people find maths intimidating or irrelevant. Maths Week promotes a positive attitude towards maths and shows how important it is in our lives. It is the leading festival of its kind in the world and has inspired festivals in other countries including Maths Week Scotland and Maths Week England

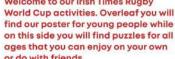
Botanic Gardens Dublin, 22 October).

Maths Week is coordinated by Calmast STEM Engagement Centre at SETU (South East

For more information see







Over 500,000 people are expected to take part in activities in school, events at universities and other venues across the island, and online. Public and family events include Maths in the City (Bank of Ireland Plaza College Green Dublin, 14 October) Munster Maths and Science Fair (Mallow GAA, 15 October) and Celebration of Mind (National

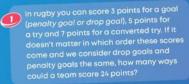
Technological University).

www.mathsweek.ie



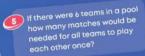


## **RUGBY PUZZLES**









If there were 16 teams in



## **MOVING THE GOALPOSTS**

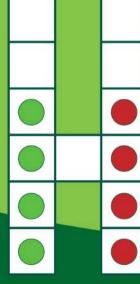
These moving coin puzzles were popularised by the great English puzzler Henry Dudeney (1857-1930). They can be played with a grid and coins or counters or any objects that make two distinct sets.

The aim of this puzzle is to reverse the positions of the Green and Red counters by sliding the counters

There are rules of course to make it a challenge:

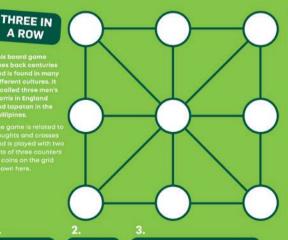
- There is no passing or jumping.
- Only one piece at a time can be in the same square.





To develop your problems solving skills you might think about the following:

- How many moves should it take?
- What helped you find a solution?
- Is there a strategy that you could use to solve similar puzzles?
- Are there other ways of doing it?
- Can you think of variations of this game that might be interesting a different grid, different number of counters?



Two players take turns in placing an empty spot on

A ROW

A player that makes a with their three If no one has made a line of three when the six counters are in place, the game continues with players moving one counte in turn along a line to an adjacent empty spot trying to achieve three in a row

of producing a winner, if we to producing a winner, then we бижики го презвигарии п no along in a final property of the property of the control of the и рервец вір зацотрш в

pepeeu eup seucopui qu indiches = 15 to play the other 5 teams 10+5 new team, that team will have teams and if we introduce a enerit bebeen ere sedoment 21 .2 2 not bebeen and som of ere 1940 FORCE R 2 X 7 X 2 X 3 X 1 = 130

zepi joj sjej ujpes i Akjo ujeju tor and place, mere are now 2 nemonity a left in contention there are now only 4 feams peinces uses seu espid dos piace there are 5 teams from could top the group. Once Explications Stational With ISI Super cuor expessod

suspic suspicipity of allowers suspice. (50) aug juginianaj bajurs (60) Culhane natched the highest ever number of conversions CONVERSIONS: 20 x 2 = 40 (SIMDI DOSCUBBLIDG KWC MIGROD = C Actual Result: 21 x tries = 105. Marc Ells holds the record for

STNIQ9A1 = 8 + (T X 0S) Least 21 Tries (20 conver

STMO9 247 = (2 X 95) Most: 29 Tries (no conversions) 20-25 12

Dack + Taliny + 4ad \* 5xG; 8xG; 2xConTry + 2xTry; \* 5xG; 8xG; 2xConTry + 2xTry; Yuswers to Rugby Puzzles

and 4:30pm in Ramania. South Africa, 230am in 10nga in France will be seen live in Insland of 2:30pm, 3:30pm in profit in mod 5:50pm in and 5:00pm mates at garders assem A seuoz eun

sáma ar ain aigin If the order of scores matters ZI = G+D+D+d

> b+b+D+D = 15  $\mathcal{E}_{L} = \Box + \mathbf{d} + \mathbf{d} + \mathbf{d}$

21 = d\*d\*d\*d $\underline{1}(\lambda+\underline{1}(\lambda+\underline{C})) + \underline{C}(\lambda+\underline{C})$ 

in which the scores come we σου έννουλ αροπετύε οιαθέ pup empodes so (ri) sipoß benalty goals (P) and drop score is points, if we count There are 6 different ways to

bigges seguir brind at 7 segas 2 tookbank the winner and 7 for the third eur ur pepeeu seuron a T good uppe

I. There are 10 games needed in regizzad Joseph of Stone

**ANSWERS** 



