

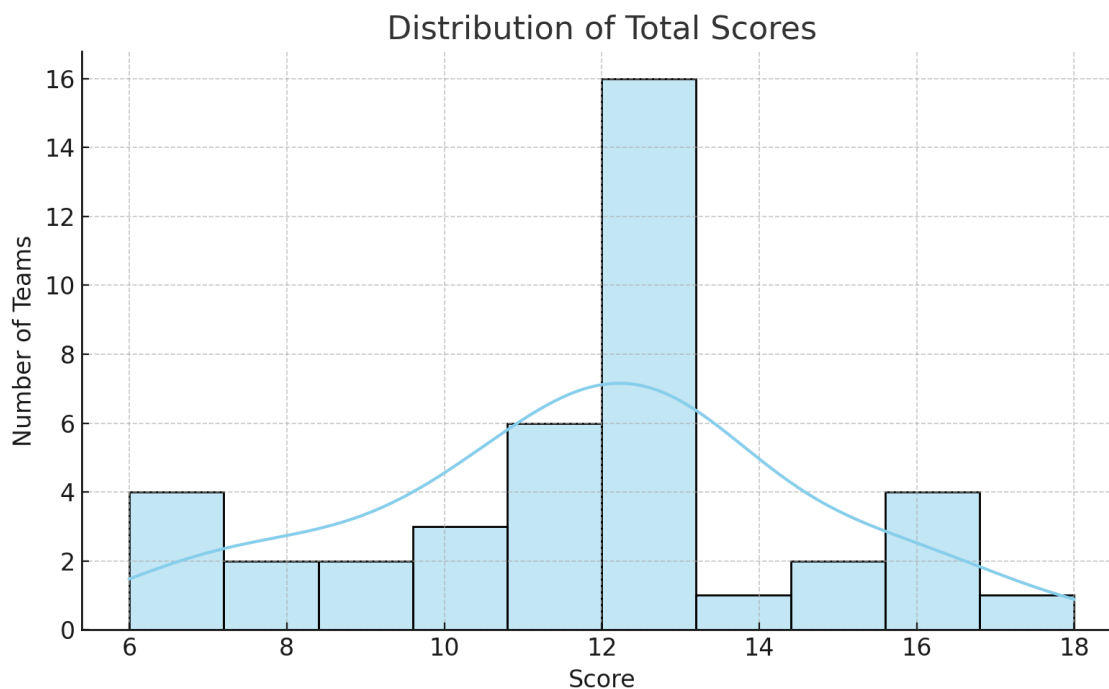
π Quiz National Final 2025 – Full Report

The Pi Quiz National Final 2025 took place on 29th March in Portlaoise, bringing together 41 schools from across the country. Teams were challenged across 8 rounds, comprising 20 mathematical questions assessing algebra, geometry, logic, and problem solving. This report presents a detailed statistical analysis of the event results.

Summary Statistics

- Mean Score: 11.83
- Median Score: 12.0
- Mode Score: 13
- Standard Deviation: 2.78
- Minimum Score: 6
- Maximum Score: 18

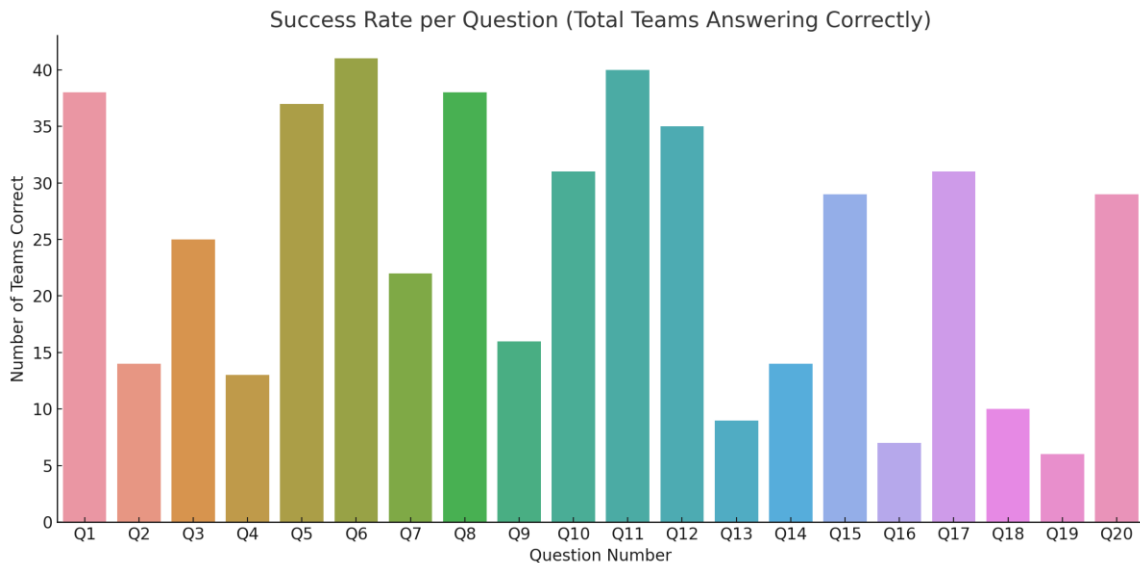
Distribution of Total Scores



Question-Level Performance

Question	Mean Success Rate	Standard Deviation	Teams Correct
Q1	0.93	0.26	38
Q2	0.34	0.48	14
Q3	0.61	0.49	25
Q4	0.32	0.47	13
Q5	0.90	0.30	37
Q6	1.00	0.00	41
Q7	0.54	0.50	22
Q8	0.93	0.26	38
Q9	0.39	0.49	16
Q10	0.76	0.43	31
Q11	0.98	0.16	40
Q12	0.85	0.36	35
Q13	0.22	0.42	9
Q14	0.34	0.48	14
Q15	0.71	0.46	29
Q16	0.17	0.38	7
Q17	0.76	0.43	31
Q18	0.24	0.43	10
Q19	0.15	0.36	6
Q20	0.71	0.46	29

Question Success Rate



Comparison with PISA Trends

Ireland consistently performs above the OECD average in the PISA mathematics assessments, especially in algebra, number sense, and data literacy. However, areas such as multi-step reasoning, logic puzzles, and probabilistic thinking often pose challenges. This Pi Quiz reflects similar trends. Questions like Q13 and Q19, which involve deeper reasoning or abstract problem solving, had the lowest success rates but the highest predictive power for overall performance. This highlights the importance of nurturing these skills in secondary mathematics education.

Leaderboard (Scores of 13 or better).

Rank	School & Score
1	St. Benildus College B – 18
2	Midleton College A – 16
3	Castleknock Community College Team 1 – 16
4	Castleknock College C (2nd) – 16
5	Coláiste Choilm Swords D – 16
6	Tullamore College A – 15
7	St. Eunan's College A – 15
8	CBS Carlow A – 14
9	CBS Kilkenny C – 13
10	Oatlands College A – 13
11	Enfield Community College A – 13
12	CBS Wexford D – 13
13	Sutton Park School A – 13
14	Coláiste Chiarain Croom D – 13
15	Coláiste Bhaile Chláir A – 13
16	Mount Anville Secondary School A – 13
17	Glenstal Abbey School A – 13
18	Abbey Vocational School A – 13

Questions Ranked by Difficulty

Question	Mean	Topic
Q19	0.146341	Geometry (Inscribed Circle)
Q16	0.170732	Probability (Pets)
Q13	0.219512	Algebra (Simplifying & Equating)
Q18	0.243902	Coordinate Geometry (Translation)
Q4	0.317073	Geometry (Sector)
Q2	0.341463	Algebra (Factorising)
Q14	0.341463	Coordinate Geometry (Curve & Quadrant)
Q9	0.390244	Speed, Distance, Time
Q7	0.536585	Patterns (Zigzag Grid)
Q3	0.609756	Algebra (Expression Evaluation)
Q20	0.707317	Statistics (Mean & Median)
Q15	0.707317	Logic Puzzle (Chocolate)
Q17	0.756098	Statistics (Fairway Improvement)
Q10	0.756098	Geometry (Triangle)
Q12	0.853659	Equation Solving (Fractions)
Q5	0.902439	Algebra (Factorising Cubic)
Q8	0.926829	Measurement (Volume)
Q1	0.926829	Geometry (Area)
Q11	0.97561	Linear Equation
Q6	1	Geometry (Angles in Quadrilateral)

