## Responses Overview

Closed

| Responses | Average Score | Average Time |
|---|---|---|
| 83 | 57.7 | 34:37 |

1. Enter your full name in capital letters exactly as it should appear on the certificate. (0 point)

82
Responses

Latest Responses
"Bushra Feroz Khan Pathan"
"NITESH SWARUP H.L"
"PRAGATI PRAKASH CHOUGALE"
• • •

2. Your College/School Name (0 point)

82
Responses

Latest Responses
"Vinayakrao Patil Mahavidyalaya,vaijapur"
"Royal Techno School Chintamani"
"Deshbhakta anandrao balwantrao naik arts science college chikhali"
• • •

3. The class you are enrolled in (0 point)

82
Responses

Latest Responses
"B.Sc (T.Y)"
"6th standard"
"Bsc I"
• • •

4. Your Email (0 point)

82
Responses

Latest Responses
"pathanbushra003@gmail.com"
"sudhasiddappahc@gmail.com"
"Pragati 3040@gmail. Com"
• • •

5. Your WhatsApp number (0 point)

82
Responses

Latest Responses
"9373534916"
"9110431388"
"9270130703"
• • •

6. Your birthdate (0 point)

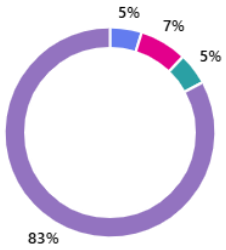
82
Responses

Latest Responses
"2005-06-06"
"2014-07-09"
"2025-12-20"
• • •

7. **National Mathematics day is celebrated in honor of which mathematician?** (1 point)

83% of respondents answered this question correctly.

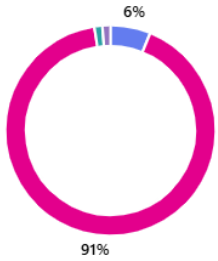
| | |
|---|---|
| Euclid | 4 |
| Aristotle | 6 |
| Pythagoras | 4 |
| Srinivasa Ramanujan | 68 ✓ |




8. **Who is known as the mother of the great mathematician Srinivasa Ramanujan?** (1 point)

91% of respondents answered this question correctly.

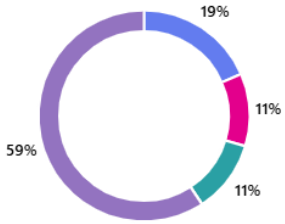
| | |
|---|---|
| Abhilasha | 5 |
| Komalatammal | 74 ✓ |
| Bindiya | 1 |
| Chakori | 1 |




9. **Which of the following is named after Ramanujan?** (1 point)

59% of respondents answered this question correctly.

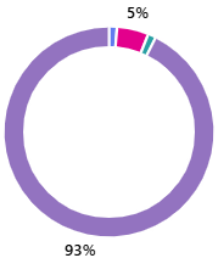
| | |
|---|---|
| Ramanujan Prime | 15 |
| Ramanujan Series | 9 |
| Ramanujan Conjecture | 9 |
| All of the above | 48 ✓ |



10. **When is National Mathematical Day Celebrated in India?** (1 point)

93% of respondents answered this question correctly.

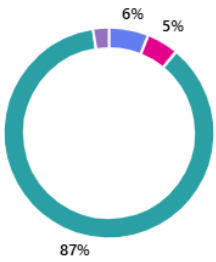
| | |
|---|---|
| 19 December | 1 |
| 20 December | 4 |
| 21 December | 1 |
| 22 December | 76 ✓ |




11. **Ramanujan was largely known as a:** (1 point)

87% of respondents answered this question correctly.

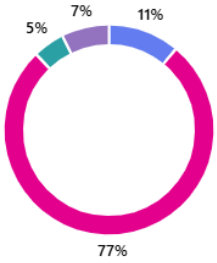
| | |
|---|---|
| University-trained mathematician | 5 |
| Engineer | 4 |
| Self-taught mathematician | 71 ✓ |
| Statistician | 2 |




12. **The famous Hardy–Ramanujan formula is related to:** (1 point)

77% of respondents answered this question correctly.

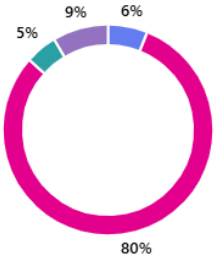
| | |
|---|---|
| Prime numbers | 9 |
| Partition of integers | 63 ✓ |
| Matrices | 4 |
| Probability | 6 |




13. **Ramanujan was awarded which fellowship in 1918?** (1 point)

80% of respondents answered this question correctly.

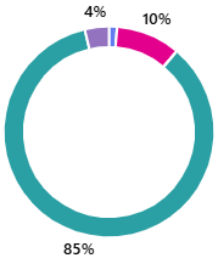
| | |
|---|---|
| Fellow of the Indian Academy of Sciences | 5 |
| Fellow of the Royal Society | 66 ✓ |
| Fellow of the Indian Statistical Institute | 4 |
| Fellow of the London Mathematical Society | 7 |



14. **Which branch of mathematics is Ramanujan most associated with?** (1 point)

85% of respondents answered this question correctly.

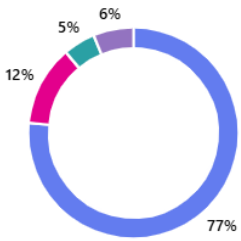
| | |
|---|---|
| Geometry | 1 |
| Statistics | 8 |
| Number Theory | 69 ✓ |
| Linear Algebra | 3 |




15. **National Mathematics Day was first celebrated in India on** (1 point)

77% of respondents answered this question correctly.

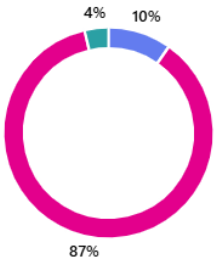
| | |
|---|---|
| 26 Feb 2012 | 62 ✓ |
| 26 Feb 2010 | 10 |
| 26 Feb 2008 | 4 |
| 26 Feb 2013 | 5 |




16. **On which birthday of Indian math genius Srinivasa Ramanujan was National Mathematics Day first announced?** (1 point)

87% of respondents answered this question correctly.

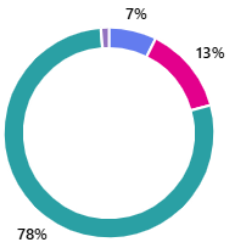
| | |
|---|---|
| 100th | 8 |
| 125th | 71 ✓ |
| 150th | 3 |
| 200th | 0 |




17. **When was genius Srinivasa Ramanujan born in tamilnadu?** (1 point)

78% of respondents answered this question correctly.

| | |
|---|---|
| 22 Dec. 1886 | 6 |
| 22 Dec. 1888 | 11 |
| 22 Dec. 1887 | 64 ✓ |
| 22 Dec. 1889 | 1 |



18. **The famous number 1729 is known as:**
(1 point)

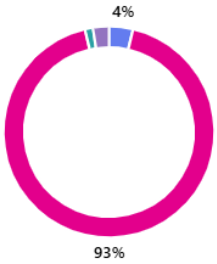
91% of respondents answered this question correctly.

| | |
|---|---|
| Euler's Number | 3 |
| Ramanujan Number | 75 ✓ |
| Perfect Number | 1 |
| Prime Number | 3 |


19. **1729 is the smallest number expressible as the sum of two cubes in:**
(1 point)

93% of respondents answered this question correctly.

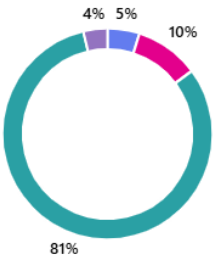
| | |
|---|---|
| One way | 3 |
| Two different ways | 76 ✓ |
| Three ways | 1 |
| Four ways | 2 |




20. **Which university invited Ramanujan to England?** (1 point)

81% of respondents answered this question correctly.

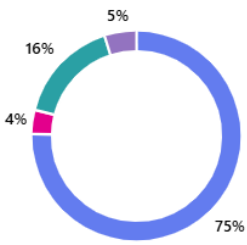
| | |
|---|---|
| Oxford University | 4 |
| London University | 8 |
| Cambridge University | 66 ✓ |
| Edinburgh University | 3 |




21. **Where is Ramanujan Math Park Located?** (1 point)

75% of respondents answered this question correctly.

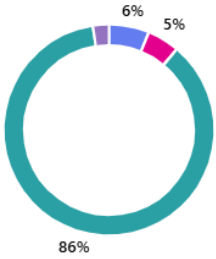
| | |
|---|---|
| Andhra Pradesh | 61 ✓ |
| Rajasthan | 3 |
| Madhya Pradesh | 13 |
| Gujrat | 4 |



22. **Ramanujan collaborated with which famous mathematician at Cambridge?** (1 point)

86% of respondents answered this question correctly.

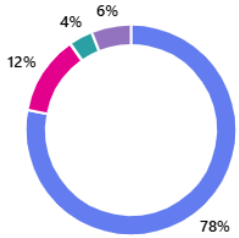
| | | |
|---|---|---|
| Newton | 5 | |
| Euler | 4 | |
| G. H. Hardy | 70 | ✓ |
| Gauss | 2 | |




23. **What ratio does the mathematical constant pi represent?** (1 point)

78% of respondents answered this question correctly.

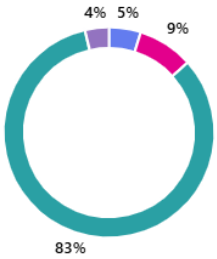
| | | |
|---|---|---|
| A circle's circumference to its diameter | 64 | ✓ |
| A circle's area to its circumference | 10 | |
| A square's area to its side length | 3 | |
| A circle's radius to its circumference | 5 | |




24. **Srinivasa Ramanujan was elected as a Fellow of the Royal Society in:** (1 point)

83% of respondents answered this question correctly.

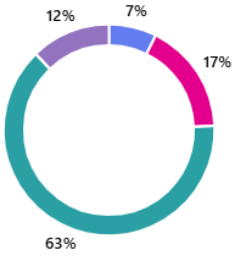
| | | |
|---|---|---|
| 1916 | 4 | |
| 1917 | 7 | |
| 1918 | 68 | ✓ |
| 1919 | 3 | |




25. **National Mathematics Day was declared by the Government of India in:** (1 point)

63% of respondents answered this question correctly.

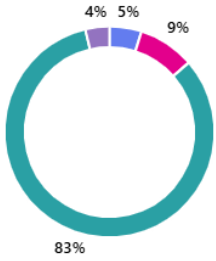
| | | |
|---|---|---|
| Parliament | 6 | |
| IIT Madras | 14 | |
| Prime Minister's address | 52 | ✓ |
| Indian Mathematical Society | 10 | |



26. **Ramanujan made significant contributions to:** (1 point)

83% of respondents answered this question correctly.

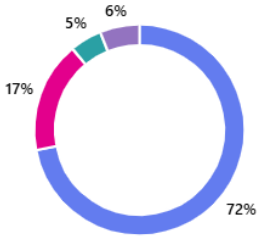
| | |
|---|---|
| Topology | 4 |
| Calculus | 7 |
| Infinite series ✓ | 67 |
| Differential geometry | 3 |




27. **What is the name of Srinivasa Ramanujan's father?** (1 point)

72% of respondents answered this question correctly.

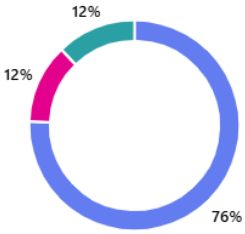
| | |
|---|---|
| K. Srinivasa Iyengar ✓ | 59 |
| K.R. Srinivasa Iyengar | 14 |
| K.P. Srinivasa Iyengar | 4 |
| K.K. Srinivasa Iyengar | 5 |




28. **Indicate the year in which Srinivasa Ramanujan was invited to London by British mathematician G. H. Hardy, after which he commenced significant mathematical research.** (1 point)

76% of respondents answered this question correctly.

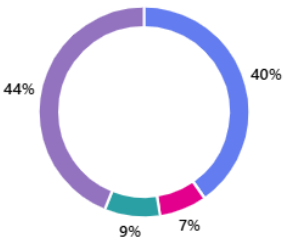
| | |
|---|---|
| In 1913 ✓ | 62 |
| In 1897 | 10 |
| In 1899 | 10 |
| In 1891 | 0 |




29. **Who is known as the "Father of Mathematics" ?** (1 point)

44% of respondents answered this question correctly.

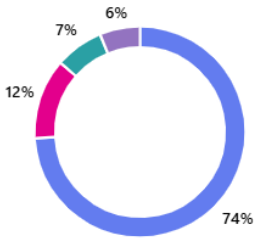
| | |
|---|---|
| Euclid | 33 |
| Aristotle | 6 |
| Pythagoras | 7 |
| Archimedes ✓ | 36 |



30. **Srinivasa Ramanujan is the founder of?** (1 point)

74% of respondents answered this question correctly.

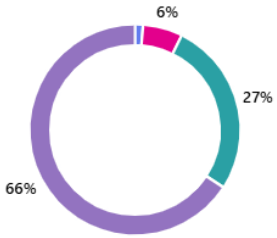
| | |
|---|---|
| Indian Mathematical Society | 60 ✓ |
| International Mathematical Society | 10 |
| Mathematical Association | 6 |
| International Mathematical Union | 5 |




31. **Ramanujan's work continues to influence research in:** (1 point)

66% of respondents answered this question correctly.

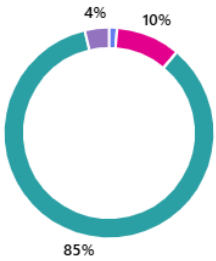
| | |
|---|---|
| Physics | 1 |
| Computer science | 5 |
| Mathematics | 22 |
| All of the above | 54 ✓ |




32. **Which famous notebook contains Ramanujan's unpublished results?** (1 point)

85% of respondents answered this question correctly.

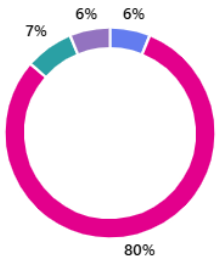
| | |
|---|---|
| Hardy Papers | 1 |
| Cambridge Notes | 8 |
| Ramanujan Notebooks | 69 ✓ |
| Mathematical Diary | 3 |




33. **Which institution in India played a key role in supporting Ramanujan early in his career?** (1 point)

80% of respondents answered this question correctly.

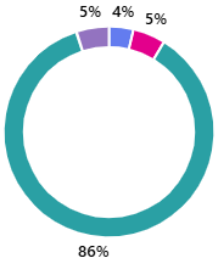
| | |
|---|---|
| University of Calcutta | 5 |
| University of Madras | 65 ✓ |
| IIT Madras | 6 |
| Indian Statistical Institute | 5 |



34. **National Mathematics Day was announced by Prime Minister.....** (1 point)

86% of respondents answered this question correctly.

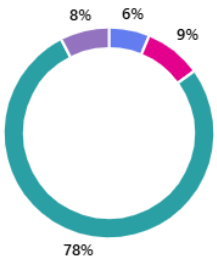
| | |
|---|---|
| Narendra Modi | 3 |
| Jawaharlal Nehru | 4 |
| Manmohan Singh | 69 ✓ |
| Indira Gandhi | 4 |




35. **Ramanujan returned to India from England in:** (1 point)

78% of respondents answered this question correctly.

| | |
|---|---|
| 1917 | 5 |
| 1918 | 7 |
| 1919 | 62 ✓ |
| 1920 | 6 |




36. **Ramanujan's work was largely based on:** (1 point)

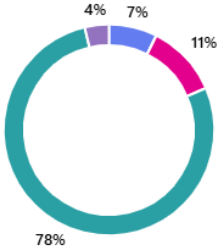
86% of respondents answered this question correctly.

| | |
|---|---|
| Rigorous proofs only | 5 |
| Intuition and patterns | 68 ✓ |
| Experimental physics | 4 |
| Computer simulations | 2 |


37. **Srinivasa Ramanujan passed away in the year:** (1 point)

78% of respondents answered this question correctly.

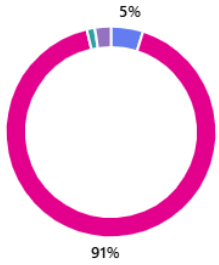
| | |
|---|---|
| 1918 | 6 |
| 1919 | 9 |
| 1920 | 63 ✓ |
| 1921 | 3 |



38. **Ramanujan's health was significantly affected during his stay in:** (1 point)

91% of respondents answered this question correctly.

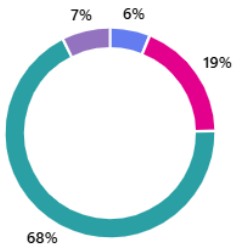
| | | |
|---|---|---|
| India | 4 | |
| England | 74 | ✓ |
| USA | 1 | |
| Germany | 2 | |




39. **Ramanujan's notebooks contained:** (1 point)

68% of respondents answered this question correctly.

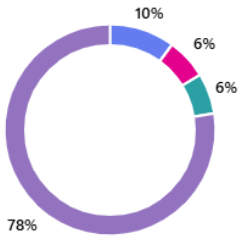
| | | |
|---|---|---|
| Only solved problems | 5 | |
| Only published theorems | 15 | |
| Many unpublished results | 55 | ✓ |
| Only elementary mathematics | 6 | |




40. **In our daily life, we use _____ to make decisions when we are unsure about the outcome.** (1 point)

78% of respondents answered this question correctly.

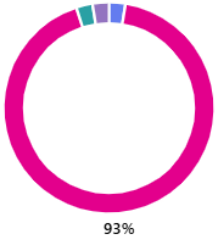
| | | |
|---|---|---|
| flow chart | 8 | |
| mode | 5 | |
| mean | 5 | |
| probability | 62 | ✓ |




41. **When Pi Day is celebrated around the world?** (1 point)

93% of respondents answered this question correctly.

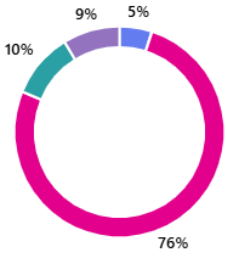
| | | |
|---|---|---|
| 14 Feb | 2 | |
| 14 March | 74 | ✓ |
| 14 April | 2 | |
| 15 March | 2 | |



42. **An object is thrown into the air. After a while, it falls back to the Earth. The flight path of the object traces what shape?** (1 point)

76% of respondents answered this question correctly.

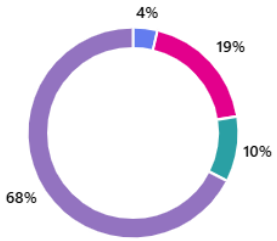
| | | |
|---|---|---|
| ellipse | 4 | |
| parabola | 61 | ✓ |
| hyperbola | 8 | |
| circle | 7 | |




43. **Which of the following statement is correct about Pi?** (1 point)

68% of respondents answered this question correctly.

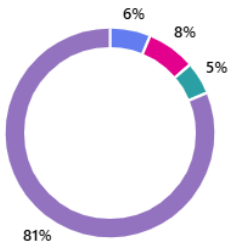
| | | |
|---|---|---|
| It is non-repeating decimal value | 3 | |
| It is non terminating decimal value | 15 | |
| It is repeating and terminating decimal value | 8 | |
| It is non-repeating, non-terminating decimal value | 54 | ✓ |




44. **Adding the numbers between 1 to 100 consecutively (1+2+3+4+...) gives you what final answer?** (1 point)

81% of respondents answered this question correctly.

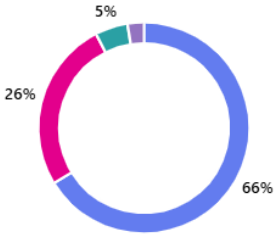
| | | |
|---|---|---|
| 5500 | 5 | |
| 5000 | 6 | |
| 5550 | 4 | |
| 5050 | 65 | ✓ |




45. **Pi algorithm up to 5 correct decimal places was invented by which Chinese mathematician?** (1 point)

26% of respondents answered this question correctly.

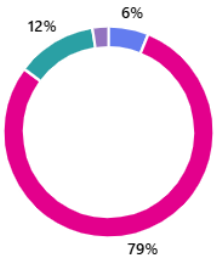
| | | |
|---|---|---|
| Zu Chongzhi | 53 | |
| Liu Hui's | 21 | ✓ |
| Shen kuo | 4 | |
| Pan Jianwei | 2 | |



46. **Many branching patterns in nature, for example, trees, ferns, snowflakes, etc can be modelled as _____ which shows patterns t hat are self similar.** (1 point)

79% of respondents answered this question correctly.

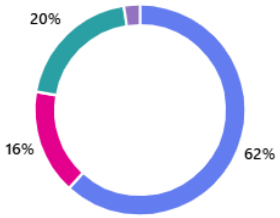
| | |
|---|---|
| groups | 5 |
| fractals | 64 ✓ |
| sets | 10 |
| groupoids | 2 |




47. **Who has calculated the area of a circle by taking the value of Pi equal to 3?** (1 point)

62% of respondents answered this question correctly.

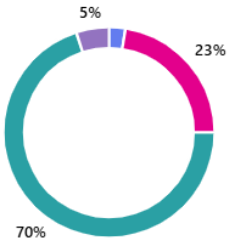
| | |
|---|---|
| Babylonians | 50 ✓ |
| Archimedes | 13 |
| Both A and B | 16 |
| Neither A nor B | 2 |




48. **The most well known MP3 format of audio compression uses _____ to approximate the audio.** (1 point)

23% of respondents answered this question correctly.

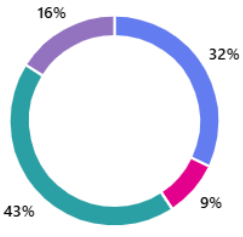
| | |
|---|---|
| Laplace transform | 2 |
| Fourier series | 18 ✓ |
| Fourier transform | 56 |
| Vector spaces | 4 |




49. **Who has calculated the circumference of the earth and considered the value of Pi = 22/7?** (1 point)

43% of respondents answered this question correctly.

| | |
|---|---|
| Archimedes | 26 |
| John Machin's | 7 |
| Aryabhatta | 35 ✓ |
| None of the above | 13 |



50. **Who was the first to use the Greek letter pi (π) to denote the constant?** (1 point)

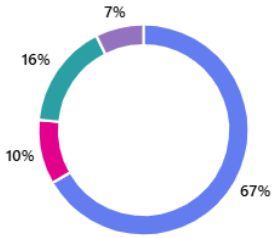
86% of respondents answered this question correctly.

| | |
|---|---|
| Leonhard Euler | 7 |
| William Jones | 68 ✓ |
| Mayans | 2 |
| Papyrus | 2 |


51. **Ramanujan's work is closely connected with:** (1 point)

67% of respondents answered this question correctly.

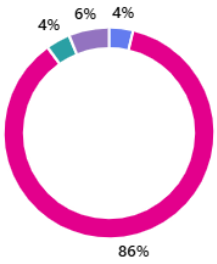
| | |
|---|---|
| Modular forms | 54 ✓ |
| Game theory | 8 |
| Graph theory | 13 |
| Set theory | 6 |




52. **The number of positive divisors of 1729 is:** (1 point)

86% of respondents answered this question correctly.

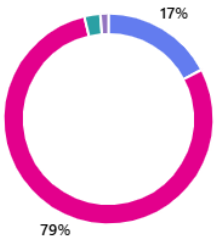
| | |
|---|---|
| 6 | 3 |
| 8 | 70 ✓ |
| 10 | 3 |
| 12 | 5 |




53. **If p is a prime such that p^2+2 is also prime, then p equals:** (1 point)

79% of respondents answered this question correctly.

| | |
|---|---|
| 2 | 14 |
| 3 | 64 ✓ |
| 5 | 2 |
| 7 | 1 |



54. **People tried for centuries to "square the circle". What were they trying to do?** (1 point)

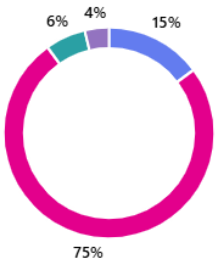
79% of respondents answered this question correctly.

| | |
|---|---|
| Construct a square to perfectly circumscribe a circle | 9 |
| Construct a square of equal area to a given circle ✓ | 64 |
| Multiply a circle by itself | 7 |
| fit a round peg in square hole | 1 |


55. **A soccer is consisted of 12 pentagons and ___ hexagons.** (1 point)

75% of respondents answered this question correctly.

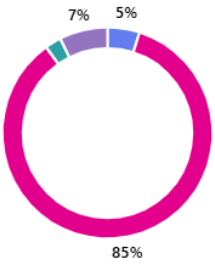
| | |
|---|---|
| 32 | 12 |
| 20 ✓ | 61 |
| 16 | 5 |
| 24 | 3 |




56. **What is true about pi?** (1 point)

85% of respondents answered this question correctly.

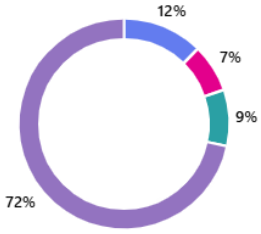
| | |
|---|---|
| It's rational | 4 |
| It's irrational ✓ | 69 |
| It's regular | 2 |
| It's basic | 6 |




57. **At what age did mathematician Ramanujan die?** (1 point)

12% of respondents answered this question correctly.

| | |
|---|---|
| 33 ✓ | 10 |
| 23 | 6 |
| 34 | 7 |
| 32 | 58 |



58. Find the smallest positive integer divisible by all integers from 1 to 10. (2 points)

75% of respondents answered this question correctly.

| | |
|---|---|
| 2520 | 53 ✓ |
| 1 | 4 |
| 2 | 3 |
| 2,4,6,8 | 1 |
| 0 | 1 |
| 1 ते10 पर्यंतच्या सर्व पूर्णांकानी विभाज्य असलेली सर्वात सर्वात लहान धन पूर्ण संख्या संख्या 2520 ... | 1 |
| 232,792,560 | 1 |
| 2550 | 1 |
| 6 | 1 |
| 5 other options | 5 |


59. The number of distinct prime factors of 1001 is: (2 points)

67% of respondents answered this question correctly.

| | |
|---|---|
| 3 | 47 ✓ |
| 7,11,13 | 6 |
| 999 | 2 |
| 1 | 1 |
| 1001÷7=143 , 1001= 7×143 , 143 is not divisible by 7. Dividing 143 by the next... | 1 |
| 0 | 1 |
| 1001 can be factored into its prime factors:1001=7×11×13.the district prime... | 1 |
| 1001=7*11*13 | 1 |
| 1001=7×11×13 | 1 |
| 9 other options | 9 |


60. Find the number of positive integers less than 100 that are divisible by **both 3 and 5**. (2 points)

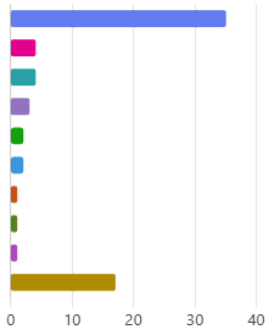
10% of respondents answered this question correctly.

| | |
|---|---|
| 6 | 43 ✓ |
| 6 | 7 ✓ |
| $\frac{2}{-}$ | 1 |
| $15\times\ 1\ =\ 15\ .\ 15\times 2=\ 30\ .\ 15\times 2=45.,\ 60,75,$ | 1 |
| $multiple 15x7\ =\ 105\ is\ not\ less\ than\ 100$ | 1 |
| $\left[\frac{99}{[15]}\right]\ =[6.6]=6.$ | 1 |
| $[6]$ | 1 |
| 1223 | 1 |
| 15 | 1 |
| 13 other options | 13 |

61. The number of solutions in integers of (2 points)

6% of respondents answered this question correctly.

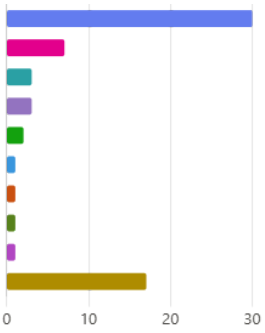
| | |
|---|---|
| 12 | 35 ✓ |
| | 4 |
| 12 | 4 ✓ |
| 8 | 3 |
| 2 | 2 |
| 4 | 2 |
| > | 1 |
| *the equation* $x^2+y^2=50$ *has 8 solutin in integer* | 1 |
| $(+-1,+-7)\ (+-7,+-1)\ ,(+-,+-5)$ | 1 |
| 17 other options | 17 |




62. If the roots of (2 points)

0% of respondents answered this question correctly.

| | |
|---|---|
| 1154 | 30 |
| | 7 |
| 1154 | 3 |
| 34 | 3 |
| *the value of* $a4+B4$ *is* 1154 | 2 |
| ≥ | 1 |
| 1210 | 1 |
| 1154. | 1 |
| 1254 | 1 |
| 17 other options | 17 |




63. The number of integer solutions of (2 points)

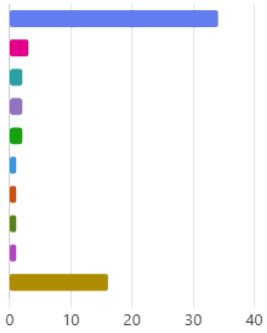
3% of respondents answered this question correctly.

| | |
|---|---|
| 40 | 31 ✓ |
| 5 | 6 |
| inf *inite* | 2 |
| 10 | 2 |
| 11 | 2 |
| 40 | 2 ✓ |
| 76 | 2 |
| [] | 1 |
| *the number of integer solution for* $\|x\|+\|y\|$ *is* 40 | 1 |
| 17 other options | 17 |

64. The number of integers n such that (2 points)

3% of respondents answered this question correctly.

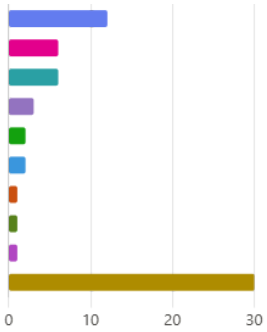
| | |
|---|---|
| 0 | 34 ✓ |
| | 3 |
| 0 | 2 ✓ |
| 3 | 2 |
| *zero* | 2 |
| *the number of integer solution of* $\|x\| + \|y\| = 10$ *is* | 1 |
| \ the\ \ number\ \ of\ integers\ \ n\ such\ that\ n^4+n^2 is\ odd\ is\ zero | 1 |
| *the number if integer n is* 0 | 1 |
| \inf initely\ many\ | 1 |
| 16 other options | 16 |




65. The number of integers n for which (2 points)

0% of respondents answered this question correctly.

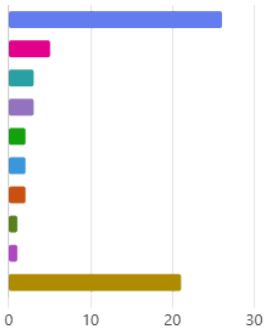
| | |
|---|---|
| 2 | 12 |
| inf *inite* | 6 |
| ∞ | 6 |
| $n\,(n+1)$ | 3 |
| | 2 |
| 1 | 2 |
| *The number of integers n is* 41 *(from* 0*to*40*)* | 1 |
| 41 | 1 |
| 7 | 1 |
| 30 other options | 30 |




66. The number of integer solutions of (2 points)

0% of respondents answered this question correctly.

| | |
|---|---|
| 2 | 26 |
| 3 | 5 |
| 1 | 3 |
| $(1,1)\,,(2,2)$ | 3 |
| 0 | 2 |
| 2 | 2 |
| 4 | 2 |
| $(0,0)$ | 1 |
| $(0,0) \;=\; 0\cdot 0 \;=\; 0+0$ | 1 |
| 21 other options | 21 |



67. Find the HCF of 24 and 36. (2 points)

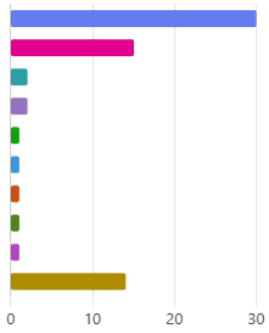
3% of respondents answered this question correctly.

| | |
|---|---|
| 12 | 54 ✓ |
| 12 | 2 ✓ |
| | 1 |
| 24 – 36 | 1 |
| 0 | 1 |
| 12 $24 = 2^3 \times 3$ | 1 |
| 2 × 2 × 3 = 12. | 1 |
| 26 | 1 |
| HCF\ is\ the\ product\ of\ these\ common\ factors | 1 |
| 4 other options | 4 |


68. Which number is both a **square and a cube?** (3 points)

22% of respondents answered this question correctly.

| | |
|---|---|
| 64 | 30 ✓ |
| 1 | 15 ✓ |
| 2 | 2 |
| 2, 3 | 2 |
| $5\sqrt{\frac{1}{}}$ | 1 |
| 1 64 729 | 1 |
| *Square* : $8^2 = 64$ | 1 |
| As a square: \(1=1^{2}\)As a cube: \ (1=1^{3}\) The next number is \... | 1 |
| (\(n^{6}=(n^{for ex.,1: \(1^{2}=1\) and \ (1^{3}=1\).64: \(8^{2}=64\) and \... | 1 |
| 14 other options | 14 |




69. What is the next number: **1, 1, 2, 3, 5, ?** (3 points)

69% of respondents answered this question correctly.

| | |
|---|---|
| 8 | 47 ✓ |
| 1 | 2 |
| 7 | 2 |
| 222 | 1 |
| 6 | 1 |
| | 1 |
| *each number = sum of previous two number* | 1 |
| \(F_{n}=F_{n-1}+F_{n-2}\). \ (F_{6}=F_{5}+F_{4}=5+3=8\). The next number in th... | 1 |
| 1+1=2 | 1 |
| 11 other options | 11 |

70. Which prime divides **every even perfect number**? (3 points)

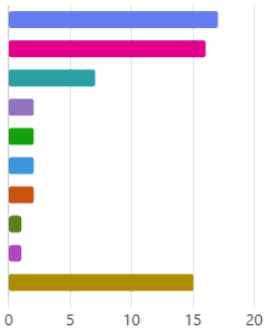
68% of respondents answered this question correctly.

| | |
|---|---|
| 2 | 45 ✓ |
| *mersenne prime* | 2 |
| 7 | 1 |
| *prime number* 2 | 1 |
| $6 = 2^1$ $28 = 2^2 \times 7$ $496 = 2^4 \times 31$ $8128 = 2^6 \times 12$ | 1 |
| *no* sin *gle prime number* | 1 |
| 1 (*thenumber*1*isbothatriangularnumber* \frac{1(1+1)}{2}=1*andasquare*1^2). | 1 |
| 12 | 1 |
| 123 | 1 |
| 12 other options | 12 |


71. Which number is both **triangular and square**? (3 points)

25% of respondents answered this question correctly.

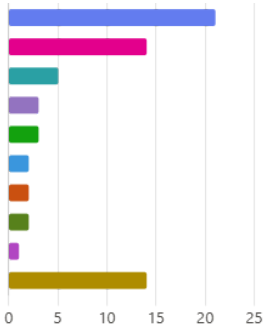
| | |
|---|---|
| 36 | 17 ✓ |
| 1 | 16 ✓ |
| 1,36,1225,41616 | 7 |
| 1 (the number 1 is both a triangular number $\frac{1(1+1)}{2}=1$ and a square $1^2$). | 2 |
| 1 or 36 | 2 |
| 1&36 | 2 |
| 1,36,1225 and 41616 | 2 |
| 0,1,36,1225 | 1 |
| 0 1 36 1125 | 1 |
| 15 other options | 15 |




72. What is the smallest **primitive Pythagorean triple**? (3 points)

3% of respondents answered this question correctly.

| | |
|---|---|
| 3, 4, 5 | 21 |
| (3, 4, 5) | 14 |
| 3,4,5 | 5 |
| 3, 4, 5 | 3 |
| 3 4 5 | 3 |
| 2 | 2 |
| 1 | 2 |
| 3, 4, 5 | 2 ✓ |
| (3,4,5) | 1 |
| 14 other options | 14 |



73. What is the ratio of areas of similar triangles with sides in ratio 2:3? (3 points)

72% of respondents answered this question correctly.

| | |
|---|---|
| 4:9 | 47 ✓ |
| 23 | 2 |
| 4:9 (the area ratio is the square of the side ratio, $(2:3)^2 = 4:9$). | 2 |
| 1:2 | 1 |
| 2 | 1 |
| 2.56 | 1 |
| 2:3 is 4:9 | 1 |
| 4 ratio 9 | 1 |
| 4/9 | 1 |
| 8 other options | 8 |


74. What is the maximum number of regions formed by **6 lines** in a plane? (3 points)

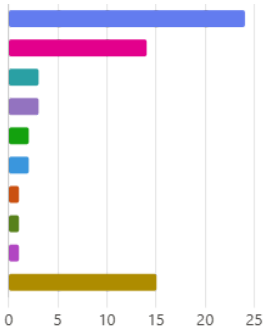
6% of respondents answered this question correctly.

| | |
|---|---|
| 22 | 43 ✓ |
| 22 | 4 ✓ |
| 2 | 2 |
| 22 (given by the formula $\frac{n(n+1)}{2} + 1$ for $n = 6$). | 2 |
| 3 | 2 |
| 6 | 1 |
| 5 *answers*12*y* | 1 |
| The\max imumnumberofregionsformedby6line\sin... | 1 |
| 42 | 1 |
| 8 other options | 8 |


75. The even perfect numbers less than 100 are... (3 points)

5% of respondents answered this question correctly.

| | |
|---|---|
| 6, 28 | 24 |
| 6 *and* 28 | 14 |
| 6&28 | 3 |
| 6 | 3 ✓ |
| 0 | 2 |
| 6 and 28 | 2 |
| 50 | 1 |
| 6 *and*28 | 1 |
| | 1 |
| 15 other options | 15 |



76. What is the locus of points whose distance from a fixed point equals distance from a fixed line? (3 points)

56% of respondents answered this question correctly.

| | |
|---|---|
| Parabola | 37 ✓ |
| A parabola | 9 |
| 0 | 2 |
| 3 | 2 |
| Radius | 1 |
| T5 | 1 |
| | 1 |
| 1 | 1 |
| 2 | 1 |
| 11 other options | 11 |


77. What is the smallest **taxicab number**? (3 points)

3% of respondents answered this question correctly.

| | |
|---|---|
| 1729 | 48 ✓ |
| 1729 | 2 ✓ |
| 2 | 2 |
| 0.0 | 1 |
| can\ be\ \exp resas\ the\ sum\ of\ rwopositive\ cubes | 1 |
| 0 | 1 |
| 1 | 1 |
| 17289 | 1 |
| 1729 *is the smallest taxicab number* | 1 |
| 9 other options | 9 |