

Elizabethtown College 2nd Annual High School Math Contest Solutions

April 08, 2025

- | | |
|-------------------------|-----------------------|
| 1. $n = 9$ | 16. $\frac{3}{8}$ |
| 2. 63 | 17. 26 |
| 3. 0 | 18. 19 |
| 4. 4049 | 19. $2(1 + \sqrt{3})$ |
| 5. 2^{45} | 20. $\frac{2}{5}$ |
| 6. $\frac{3}{10}$ | 21. 9 |
| 7. 47 triangles | 22. 45° |
| 8. -6 | 23. 1 |
| 9. 60 meters per second | 24. 47 |
| 10. $\frac{1}{182}$ | 25. 4 |
| 11. 445308 | 26. 15 divisors |
| 12. 10:54:33 | 27. $\frac{1}{39}$ |
| 13. 900 yards | 28. 80 |
| 14. 16 ways | 29. 3 |
| 15. 1250 | 30. $-\frac{37}{125}$ |