

2022 Chantilly Math Competition Answers

Chantilly Math Competition Club

May 28 2022

I Algebra

1. D. 1
2. A. -2
3. C. 20
4. 64
5. 1

II Geometry

6. B. 62°
7. C. 256
8. A. $117\sqrt{3} - 48\pi$
9. 23
10. 135

III Probability/Statistics

11. C. $\frac{11}{15}$
12. A. $\frac{1}{8}$
13. B. 300
14. 56
15. 125

IV Number Theory

- 16. C. 1
- 17. C. 2420
- 18. B. Thursday
- 19. 161
- 20. 2

V Estimation

- 21. 36.2964
- 22. 0.2222

VI Advanced

- 23. $(2 + n) \cdot 2^{n-1}$
- 24. 4
- 25. $\pi(n - 2 - 2 \sum_{k=3}^n \frac{1}{k})$