

2019 Four-by-Four Competition
Answer Key

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|-----|-------------------------|-----------|-----|-------------------------|-----------|
| 1. | 630 | 1 | 21. | $\frac{9}{2}$ | 21 |
| 2. | 12 | 2 | 22. | 341 | 22 |
| 3. | 25 | 3 | 23. | $2\sqrt{6} + 2\sqrt{3}$ | 23 |
| 4. | 56 | 4 | 24. | 6,735 | 24 |
| 5. | Sunday | 5 | 25. | 6 | 25 |
| 6. | $\frac{\sqrt{33}-5}{2}$ | 6 | 26. | 352 | 26 |
| 7. | 10199 | 7 | 27. | (-6,16) | 27 |
| 8. | $\frac{16}{9}$ | 8 | 28. | 42 | 28 |
| 9. | $-\frac{\pi}{4}$ | 9 | 29. | Hyperbola | 29 |
| 10. | (0, -16) | 10 | 30. | 2:05:36 AM | 30 |
| 11. | $9x - 4y - 5z = 128$ | 11 | 31. | 9 | 31 |
| 12. | $18\sqrt{2}$ | 12 | 32. | 87 | 32 |
| 13. | $2\sqrt{37}$ | 13 | 33. | 44 | 33 |
| 14. | 120,021 | 14 | 34. | 450 | 34 |
| 15. | DCBA | 15 | 35. | $\frac{256}{15}$ | 35 |
| 16. | 19,158 | 16 | 36. | 4 | 36 |
| 17. | $10\sqrt{3}$ | 17 | 37. | -6 | 37 |
| 18. | $-7 - 17i$ | 18 | 38. | $\frac{5}{2}$ | 38 |
| 19. | 5,918 | 19 | 39. | 19.80 | 39 |
| 20. | 99,897 | 20 | 40. | 432 | 40 |