

GRE Mathematics Practice Test 76

Advanced Challenge

English edition / 66 multiple-choice questions

66

Questions

170

Minutes

A–E

One correct choice

Instructions

Choose exactly one answer for each question. Do not use a calculator. Begin timing at Question 1. Use the space provided or separate scratch paper. The answer key follows Question 66; no solutions are included.

Angles are measured in radians. Unless specified otherwise, logarithms are natural, $\mathbb{N} = \{1, 2, 3, \dots\}$, and distances in $\mathbb{R}^n$ are Euclidean. I_n denotes the $n \times n$ identity matrix. Graphs are finite and simple unless stated otherwise.

Difficulty target

The most demanding form in this five-test cycle. Emphasis on connected ideas, non-routine reasoning, and careful conceptual distinctions. This is cycle 15 of 19, position 1 of 5; difficulty decreases within each cycle.

Difficulty labels are editorial targets, not ETS-equated ratings. No official scaled-score conversion is provided.

Coverage

Calculus / 33	Differential and integral calculus, sequences and series, several variables, vector calculus, and differential equations.
Algebra / 17	Elementary and linear algebra, groups, rings, fields, and number theory.
Additional / 16	Probability, statistics, analysis, topology, complex variables, discrete mathematics, and numerical methods.

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This series uses independently written question families and parameter variants. Related mathematical structures recur across forms; these are training forms, not 95 psychometrically independent official exams.

Scope reference: ETS, *GRE Mathematics Test Practice Book*, ETS official practice-book PDF. Questions are not taken from that book. This booklet is not published or endorsed by ETS.

Questions 1–3

1. Near $(0, 0)$, $z = z(x, y)$ satisfies $z + 16z^2 = x + 6y$ and $z(0, 0) = 0$. Find $z_{xy}(0, 0)$.
- (A) -192
(B) -6
(C) -96
(D) -32
(E) 192
2. Subspaces U, V of $\mathbb{R}^{80}$ have dimensions 6 and 7. What is the smallest possible value of $\dim(U \cap V)$?
- (A) 1
(B) 2
(C) 0
(D) 3
(E) 4
3. Let $F(x) = \int_0^x (x - t)^5 e^{16t} dt$. Find $F^{(6)}(0)$.
- (A) 0
(B) 120
(C) 1920
(D) $\frac{1}{120}$
(E) 720

Questions 4–6

4. A coin success probability p has uniform prior on $[0, 1]$. After observing 28 successes and 2 failures in independent tosses conditional on p , what is the predictive probability of success on the next toss?

- (A) $\frac{3}{32}$
- (B) $\frac{61}{64}$
- (C) $\frac{29}{96}$
- (D) $\frac{32}{29}$
- (E) $\frac{29}{64}$

5. Evaluate $\lim_{x \rightarrow 0} \frac{e^{16x} - \sum_{j=0}^5 (16x)^j / j!}{x^6}$.

- (A) $720 \left(\frac{16^6}{6!} \right)$
- (B) $\frac{16^6}{6!}$
- (C) $\frac{1}{16} \left(\frac{16^6}{6!} \right)$
- (D) $6 \left(\frac{16^6}{6!} \right)$
- (E) $-\frac{16^6}{6!}$

6. Let V consist of real polynomials of degree at most 11 that have both value and first derivative zero at 72, 73, and 75. Find $\dim V$.

- (A) 8
- (B) 4
- (C) 5
- (D) 6
- (E) 7

Questions 7–9

7. Let $F(x) = \int_0^{x^6} e^{16t} dt$. Find $F'(1)$.

- (A) $6e^{16}$
- (B) e^{96}
- (C) e^{16}
- (D) $\frac{e^{16}}{6}$
- (E) $96e^{16}$

8. A random variable has mean 0 and variance 28. What upper bound does the Chebyshev inequality give for $P(|X| \geq 56)$?

- (A) $\frac{1}{224}$
- (B) $\frac{113}{224}$
- (C) $\frac{1}{336}$
- (D) $\frac{1}{112}$
- (E) $\frac{111}{112}$

9. Two solutions of $y'' + 16x^6y' + 6y = 0$ have Wronskian $W(0) = 1$. Find $W(1)$.

- (A) $-\frac{1}{e^{\frac{16}{7}}}$
- (B) $\frac{2}{e^{\frac{16}{7}}}$
- (C) $e^{-\frac{16}{7}}$
- (D) $e^{-\frac{16}{7}} + 1$
- (E) $\frac{1}{2e^{\frac{16}{7}}}$

Questions 10–12

10. The roots r, s of $x^2 - 84x + 864 = 0$ are counted with multiplicity. Find $r^4 + s^4$.

- (A) $84^4 - 4(864)(84^2)$
- (B) $84^4 - 4(864)(84^2) + 864^2$
- (C) $84^4 - 2(864)(84^2) + 2(864^2)$
- (D) $84^4 - 4(864)(84^2) + 2(864^2)$
- (E) $84^4 + 2(864^2)$

11. Find the curvature of the helix $r(t) = (16 \cos t, 16 \sin t, 6t)$.

- (A) $\frac{77}{73}$
- (B) $-\frac{4}{73}$
- (C) $\frac{2}{73}$
- (D) $\frac{4}{73}$
- (E) $\frac{8}{73}$

12. A box is chosen uniformly from two boxes. Box A contains 33 red and 35 blue balls; box B contains 35 red and 33 blue balls. Two balls are drawn without replacement and both are red. What is the conditional probability that A was chosen?

- (A) $\frac{176}{1123}$
- (B) $\frac{264}{1123}$
- (C) $\frac{528}{1123}$
- (D) $\frac{1651}{2246}$
- (E) $\frac{595}{1123}$

Questions 13–15

13. If $f(x, y) = \log(x^2 + y^2)$, $x = e^{16t} \cos(6t)$, and $y = e^{16t} \sin(6t)$, find $d^2 f/dt^2$ at $t = 1$.

- (A) 1024
- (B) 0
- (C) 584
- (D) 32
- (E) 12

14. For real t , let $M(t) = \begin{pmatrix} t-72 & 12 & 0 \\ 0 & t-72 & 1 \\ 0 & 0 & t-72 \end{pmatrix}$. At $t = 72$, what is $\dim \ker(M(t)^2) - \dim \ker M(t)$?

- (A) 1
- (B) 2
- (C) 3
- (D) 0
- (E) 4

15. For $\mathbf{F} = (16x^6y, y^6z, xz^6)$, find $\nabla \cdot \mathbf{F}$ at $(1, 2, 1)$.

- (A) 391
- (B) -390
- (C) 195
- (D) 390
- (E) 780

Questions 16–18

16. Let $X_1, \dots, X_{33}$ be independent uniform random variables on $[0, 1]$. What is $E[(\max_i X_i)^2]$?

- (A) $\frac{11}{35}$
- (B) $\frac{2}{35}$
- (C) $\frac{33}{35}$
- (D) $\frac{35}{34}$
- (E) $\frac{35}{70}$

17. Evaluate $\lim_{x \rightarrow 0} \frac{\sin(16x) - \sum_{j=0}^4 (-1)^j (16x)^{2j+1} / (2j+1)!}{x^{11}}$.

- (A) $11 \left(\frac{(-1)^5 16^{11}}{11!} \right)$
- (B) $16 \left(\frac{(-1)^5 16^{11}}{11!} \right)$
- (C) $\frac{1}{16} \left(\frac{(-1)^5 16^{11}}{11!} \right)$
- (D) $\frac{(-1)^5 16^{11}}{11!}$
- (E) $-\frac{(-1)^5 16^{11}}{11!}$

18. Let $u = (15, 6)^T$ and $v = (1, 0)^T$. Find the squared distance from $(15, 0)^T$ to $\text{span}(u)$.

- (A) $\frac{900}{29}$
- (B) $\frac{929}{29}$
- (C) $\frac{871}{29}$
- (D) $\frac{1829}{58}$
- (E) $\frac{1771}{58}$

Questions 19–21

19. If $y' = y(1 - y/6)$ and $y(0) = 3$, find $y(-\log 16)$.

- (A) $-\frac{6}{17}$
- (B) $\frac{6}{17}$
- (C) $\frac{3}{17}$
- (D) $\frac{23}{17}$
- (E) $\frac{12}{17}$

20. Independent trials have success probability $1/33$. Let T count trials up to and including the first success. Find $E[T^2]$.

- (A) 1430
- (B) 715
- (C) 3575
- (D) 2145
- (E) 2860

21. For $f(x, y) = x^2 + 16xy + 6y^2$, what is its maximum directional derivative at $(1, -1)$?

- (A) 18
- (B) 4
- (C) 212
- (D) -14
- (E) $2\sqrt{53}$

Questions 22–24

22. An idempotent 78×78 real matrix P has rank 1. What is $\det(I + P)$?

- (A) 1
- (B) 2
- (C) 3
- (D) 0
- (E) 4

23. Evaluate $\int_0^1 x^{15}(\log x)^5 dx$.

- (A) $\frac{(-1)^5 5!}{16^6}$
- (B) $16 \left(\frac{(-1)^5 5!}{16^6} \right)$
- (C) $\frac{1}{6} \left(\frac{(-1)^5 5!}{16^6} \right)$
- (D) $-\frac{1}{16}$
- (E) $-\frac{(-1)^5 5!}{16^6}$

24. A continuous $f : \mathbb{R} \rightarrow \mathbb{R}$ satisfies $f(q) = q^{23}$ for every rational q . Find $f(2)$.

- (A) 2^{26}
- (B) 2^{24}
- (C) 2^{22}
- (D) 2^{25}
- (E) 2^{23}

Questions 25–27

25. Evaluate $\int_0^1 \int_x^1 16y^6 \, dy \, dx$.

- (A) 2
- (B) $\frac{2}{7}$
- (C) $\frac{8}{3}$
- (D) $\frac{16}{7}$
- (E) 8

26. For $A = \begin{bmatrix} 1 & 0 \\ 1 & 1 \\ 1 & 2 \end{bmatrix}$ and $b = \begin{bmatrix} 72 \\ 12 \\ 84 \end{bmatrix}$, let x minimize $\|Ax - b\|^2$. Find the minimum squared residual.

- (A) 2903
- (B) 2905
- (C) 2906
- (D) 2902
- (E) 2904

27. Evaluate $\int_0^{\log 2} e^x (e^x + 16)^6 \, dx$.

- (A) $\frac{18^7}{7}$
- (B) $7 \left(\frac{18^7 - 17^7}{7} \right)$
- (C) $-\frac{18^7 - 17^7}{7}$
- (D) $\frac{18^7 - 17^7}{7}$
- (E) $18^6 - 17^6$

Questions 28–30

28. Find the radius of convergence of $\sum_{k \geq 1} k^2 z^{2k} / 23^{2k} + \sum_{k \geq 0} z^{2k+1} / (24)^{2k+1}$.

- (A) 9
- (B) 23
- (C) 37
- (D) 30
- (E) 16

29. Let C be the unit circle $x^2 + y^2 = 1$, $z = 6$, counterclockwise viewed from above. Evaluate $\int_C -16y(x^2 + y^2)^5 dx + (16x(x^2 + y^2)^5) dy + 2z dz$.

- (A) 16π
- (B) -32π
- (C) 32π
- (D) $1 + 32\pi$
- (E) 64π

30. What is the coefficient of x^8 in $(x + 15)^8(1 - x)^3$?

- (A) -170459
- (B) -170457
- (C) -170458
- (D) -170460
- (E) -170461

Questions 31–33

31. For $x > 0$, $x^2y'' + (1 - 22)xy' + 96y = 0$, $y(1) = 0$, $y'(1) = 16$. Find $y(e)$.

- (A) $-e^6 + e^{16}$
- (B) $-\frac{8(1 - e^{10})e^6}{5}$
- (C) $e^6 + e^{16}$
- (D) $\frac{e^{16}}{22}$
- (E) $\frac{8(1 - e^{10})e^6}{5}$

32. On $[0, 1]$, f is 23 on rationals and $1/23$ on irrationals. Find its upper Darboux integral minus its lower Darboux integral.

- (A) $\frac{528}{23}$
- (B) $\frac{1056}{23}$
- (C) $\frac{264}{23}$
- (D) $\frac{551}{23}$
- (E) $\frac{574}{23}$

33. If $y'' - 32y' + 256y = 6e^{16x}$ and $y(0) = y'(0) = 0$, find $y(1)$.

- (A) $6e^{16}$
- (B) $\frac{3e^{16}}{2}$
- (C) $1 + 3e^{16}$
- (D) $3e^{16}$
- (E) $-3e^{16}$

Questions 34–36

34. A matrix A satisfies $(A - 73I)(A - 75I) = 0$, and its minimal polynomial has degree two. If $A^5 = uA + vI$, find u .

- (A) $31 \cdot 181 \cdot 26731$
- (B) $2 \cdot 31 \cdot 181 \cdot 26731$
- (C) $5 \cdot 31 \cdot 181 \cdot 26731$
- (D) $3 \cdot 31 \cdot 181 \cdot 26731$
- (E) $181 \cdot 26731$

35. Evaluate $\int_0^{\pi/2} \sin^{13} t \cos^{33} t \, dt$.

- (A) $23 \left(\frac{6! 16!}{2 \cdot 23!} \right)$
- (B) $2 \left(\frac{6! 16!}{2 \cdot 23!} \right)$
- (C) $\frac{6! 16!}{2 \cdot 23!}$
- (D) $\frac{1}{2} \left(\frac{6! 16!}{2 \cdot 23!} \right)$
- (E) $74613 \left(\frac{6! 16!}{2 \cdot 23!} \right)$

36. A set with 23 elements has the discrete topology. How many of its subsets are simultaneously open and closed?

- (A) 2^{22}
- (B) 2^{25}
- (C) 2^{23}
- (D) 2^{24}
- (E) 2^{26}

Questions 37–39

37. Find the coefficient of x^6 in $\cos(16x)/(1 - 5x^2)$.

- (A) $-\frac{1048576}{45}$
- (B) $-\frac{572551}{45}$
- (C) $-\frac{572596}{45}$
- (D) $\frac{572551}{45}$
- (E) -9160816

38. Let $V = \begin{bmatrix} 1 & 72 & 5184 \\ 1 & 74 & 5476 \\ 1 & 77 & 5929 \end{bmatrix}$. Find $\det(V^T V)$.

- (A) 899
- (B) 900
- (C) 898
- (D) 901
- (E) 902

39. Find the upward flux of $\mathbf{F} = (x, y, z)$ through $z = 16x^2 + 6y^2$, $0 \leq x, y \leq 1$.

- (A) $\frac{22}{3}$
- (B) $-\frac{19}{3}$
- (C) $-\frac{44}{3}$
- (D) $-\frac{11}{3}$
- (E) $-\frac{22}{3}$

Questions 40–42

40. Let $\zeta = e^{2\pi i/20}$. Find $\sum_{k=0}^{19} \zeta^k$.

- (A) 1
- (B) 0
- (C) 4
- (D) 3
- (E) 2

41. The solution of $y' = 16x^6y^3$ has $y(0) = 1/17$. Find $y(1)$.

- (A) $\frac{\sqrt{13937}}{1991} + 1$
- (B) $-\frac{\sqrt{13937}}{1991}$
- (C) $\frac{\sqrt{13937}}{3982}$
- (D) $\frac{2\sqrt{13937}}{1991}$
- (E) $\frac{\sqrt{13937}}{1991}$

42. How many permutations in S_{78} consist of one 6-cycle and 72 fixed points?

- (A) $2^4 \cdot 3 \cdot 5^2 \cdot 7 \cdot 11 \cdot 13 \cdot 19 \cdot 37 \cdot 73$
- (B) $2^3 \cdot 3 \cdot 5^2 \cdot 7 \cdot 11 \cdot 13 \cdot 19 \cdot 37 \cdot 73$
- (C) $2^2 \cdot 3 \cdot 5^2 \cdot 7 \cdot 11 \cdot 13 \cdot 19 \cdot 37 \cdot 73$
- (D) $2^3 \cdot 3^2 \cdot 5^2 \cdot 7 \cdot 11 \cdot 13 \cdot 19 \cdot 37 \cdot 73$
- (E) $2^3 \cdot 3 \cdot 5^3 \cdot 7 \cdot 11 \cdot 13 \cdot 19 \cdot 37 \cdot 73$

Questions 43–45

43. Evaluate $\int_0^\infty x^6 e^{-16x} dx$.

- (A) $\frac{1}{6} \left(\frac{6!}{16^7} \right)$
- (B) $\frac{1}{16} \left(\frac{6!}{16^7} \right)$
- (C) $16 \left(\frac{6!}{16^7} \right)$
- (D) 720
- (E) $\frac{6!}{16^7}$

44. An analytic function has real part $u(x, y) = x^2 - y^2 + 18x$ and satisfies $f(0) = 0$. Find $\text{Im } f(1 + i)$.

- (A) 8
- (B) 26
- (C) 32
- (D) 20
- (E) 14

45. If $y' = 32xy$ and $y(0) = 1$, find the coefficient of x^{12} in the Maclaurin series of y .

- (A) $\frac{524288}{45}$
- (B) $\frac{2097152}{45}$
- (C) $\frac{1048576}{45}$
- (D) $\frac{1048621}{45}$
- (E) $-\frac{1048576}{45}$

Questions 46–48

46. How many maximal proper subgroups does the cyclic group of order 912 have?

- (A) 2
- (B) 1
- (C) 3
- (D) 4
- (E) 5

47. For $T = \{x, y, z \geq 0 : x + y + z \leq 1\}$, evaluate $\iiint_T x^{16}y^5 dV$.

- (A) $\frac{16!5!}{24!}$
- (B) $\frac{1}{6} \left(\frac{16!5!}{24!} \right)$
- (C) $24 \left(\frac{16!5!}{24!} \right)$
- (D) $6 \left(\frac{16!5!}{24!} \right)$
- (E) $\frac{1}{102}$

48. Find the coefficient of x^3 in $(1+x)^{28}(1-x)^{28}(1+2x)^2$.

- (A) -112
- (B) -186
- (C) -75
- (D) -38
- (E) -149

Questions 49–51

49. Let $f(x) = \log(1 + 16x)$. Find $f^{(6)}(0)$.

- (A) $\frac{1}{6} \left((-1)^5 5! 16^6 \right)$
- (B) $6 \left((-1)^5 5! 16^6 \right)$
- (C) $-(-1)^5 5! 16^6$
- (D) $\frac{1}{16} \left((-1)^5 5! 16^6 \right)$
- (E) $(-1)^5 5! 16^6$

50. How many residues x modulo 96 satisfy $4x \equiv 28 \pmod{96}$ and $2x \equiv 0 \pmod{96}$?

- (A) 2
- (B) 4
- (C) 3
- (D) 0
- (E) 1

51. The solution of $y' = 16x^5 y^2$, $y(0) = 1$, has its first positive singularity at which x ?

- (A) $\frac{\sqrt{2} \cdot 3^{\frac{5}{6}}}{3}$
- (B) $\frac{\sqrt[3]{2}}{2}$
- (C) $\frac{3}{8}$
- (D) $\frac{\sqrt[3]{2} \sqrt[6]{3}}{2}$
- (E) $\frac{\sqrt{2} \sqrt[6]{3}}{2}$

Questions 52–54

52. How many distinct unoriented cycles of length 4 are in $K_{28,30}$?

- (A) 164430
- (B) 274050
- (C) 219240
- (D) 109620
- (E) 54810

53. A lamina occupies $0 \leq x \leq 1$, $0 \leq y \leq 16x$ and has density $\rho(x, y) = x^4y$. Find its centroid coordinate $\bar{x}$.

- (A) $\frac{7}{16}$
- (B) $\frac{7}{4}$
- (C) $\frac{7}{8}$
- (D) $\frac{15}{8}$
- (E) $-\frac{7}{8}$

54. The field K has 11^{16} elements. Find the largest possible multiplicative order of a nonzero element of K .

- (A) $11^{17} - 1$
- (B) $11^{16} - 1$
- (C) $11^{16} + 1$
- (D) $11^{15} - 1$
- (E) 11^{16}

Questions 55–57

55. For $D = \{(x, y) : x^2 + y^2 \leq 16\}$, evaluate $\iint_D (x^2 + y^2)^5 dA$.

- (A) 16777216π
- (B) $\frac{16777216\pi}{3}$
- (C) $\frac{16777216\pi}{11}$
- (D) $\frac{8388608\pi}{3}$
- (E) $\frac{524288\pi}{3}$

56. How many functions from a set of 33 elements onto a set of 3 elements exist?

- (A) $3^{33} - 3(2^{33})$
- (B) 3^{33}
- (C) $3^{33} - 3(2^{33}) - 3$
- (D) $3^{33} - 2^{33}$
- (E) $3^{33} - 3(2^{33}) + 3$

57. The local inverse $y(x)$ of $x = 16y + y^3$ satisfies $y(0) = 0$. Find $y^{(7)}(0)$.

- (A) $\frac{1}{5040} \left(-\frac{60480}{16^{10}} \right)$
- (B) $16 \left(-\frac{60480}{16^{10}} \right)$
- (C) $-\frac{60480}{16^{10}}$
- (D) $\frac{1}{16} \left(-\frac{60480}{16^{10}} \right)$
- (E) $\frac{60480}{16^{10}}$

Questions 58–60

58. Let $G = \mathbb{Z}/462\mathbb{Z} \times \mathbb{Z}/312\mathbb{Z}$. Find the order of G/H , where $H = \{g \in G : 6g = 0\}$.

- (A) 4005
- (B) 4006
- (C) 4004
- (D) 4002
- (E) 4003

59. What is the radius of convergence about zero of $\sum_{j=1}^{\infty} \frac{(16j)!}{(j!)^{16}} x^{6j}$?

- (A) 16^{-16}
- (B) $\frac{1}{16}$
- (C) $16^{-\frac{8}{3}}$
- (D) $16^{-\frac{3}{8}}$
- (E) $16^{\frac{8}{3}}$

60. How many nonnegative integer triples sum to 66, if each coordinate is at most 33?

- (A) 199
- (B) 397
- (C) 991
- (D) 793
- (E) 595

Questions 61–63

61. Under $x = u + 16v$, $y = u - 6v$, what is the area of the image of $0 \leq u, v \leq 1$?

- (A) $\frac{1}{22}$
- (B) 96
- (C) 10
- (D) 484
- (E) 22

62. How many group homomorphisms $\mathbb{Z}/462\mathbb{Z} \rightarrow \mathbb{Z}/312\mathbb{Z}$ have image of order 6?

- (A) 0
- (B) 3
- (C) 1
- (D) 4
- (E) 2

63. For $x > 0$, $x^2y'' + (-37)xy' + 352y = 0$, $y(1) = 0$, $y'(1) = 1$. Find $y(e)$.

- (A) $\frac{(1 - e^6)e^{16}}{6}$
- (B) $-\frac{(1 - e^6)e^{16}}{6}$
- (C) $-\frac{(1 - e^6)e^{16}}{12}$
- (D) $-\frac{e^{16}}{6} + 1 + \frac{e^{22}}{6}$
- (E) $-\frac{(1 - e^6)e^{16}}{3}$

Questions 64–66

64. A tree has 33 vertices of degree 3; every other vertex has degree 1. How many leaves does it have?

- (A) 35
- (B) 46
- (C) 57
- (D) 24
- (E) 13

65. Let C be $x^2/36 + y^2 = 1$, oriented counterclockwise. Evaluate $\int_C \left(-\frac{16y^3}{3}\right) dx + \left(\frac{x^3}{3}\right) dy$.

- (A) 39π
- (B) $1 + 78\pi$
- (C) -78π
- (D) 156π
- (E) 78π

66. How many 2-dimensional subspaces does $\mathbb{F}_{47}^7$ have?

- (A) $\frac{(47^{10} - 1)(47^{10} - 47)}{(47^2 - 1)(47^2 - 47)}$
- (B) $\frac{(47^6 - 1)(47^6 - 47)}{(47^2 - 1)(47^2 - 47)}$
- (C) $\frac{(47^8 - 1)(47^8 - 47)}{(47^2 - 1)(47^2 - 47)}$
- (D) $\frac{(47^7 - 1)(47^7 - 47)}{(47^2 - 1)(47^2 - 47)}$
- (E) $\frac{(47^9 - 1)(47^9 - 47)}{(47^2 - 1)(47^2 - 47)}$

Answer Key

Practice Test 76 / Questions 1–66

Question	Answer	Question	Answer	Question	Answer
1	A	23	A	45	C
2	C	24	E	46	C
3	B	25	A	47	A
4	D	26	E	48	A
5	B	27	D	49	E
6	D	28	B	50	D
7	A	29	C	51	E
8	D	30	A	52	A
9	C	31	B	53	C
10	D	32	A	54	B
11	D	33	D	55	D
12	C	34	A	56	E
13	B	35	C	57	C
14	A	36	C	58	C
15	D	37	B	59	C
16	C	38	B	60	E
17	D	39	E	61	E
18	A	40	B	62	E
19	B	41	E	63	B
20	D	42	B	64	A
21	E	43	E	65	E
22	B	44	D	66	D

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