

GRE Mathematics Practice Test 66

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 13 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. Evaluate $\lim_{x \rightarrow 0} \frac{(1 + 14x)^{1/(5x)} - e^{14/5}}{x}$.

- (A) $e^{\frac{14}{5}}$
- (B) $-\frac{98e^{\frac{14}{5}}}{5}$
- (C) $\frac{98e^{\frac{14}{5}}}{5}$
- (D) $-\frac{7e^{\frac{14}{5}}}{5}$
- (E) $-\frac{196e^{\frac{14}{5}}}{5}$

2. The roots r, s of $x^2 - 73x + 682 = 0$ are counted with multiplicity. Find $r^4 + s^4$.

- (A) $73^4 - 2(682)(73^2) + 2(682^2)$
- (B) $73^4 - 4(682)(73^2) + 2(682^2)$
- (C) $73^4 - 4(682)(73^2) + 682^2$
- (D) $73^4 - 4(682)(73^2)$
- (E) $73^4 + 2(682^2)$

3. Let $f(x, y) = e^{14x+6y}$. Find $\partial^6 f / \partial x^5 \partial y$ at $(0, 0)$.

- (A) $\frac{243}{16807} (6 \cdot 14^5)$
- (B) $\frac{7}{3} (6 \cdot 14^5)$
- (C) $6 \cdot 14^5$
- (D) $\frac{1}{6} (6 \cdot 14^5)$
- (E) $\frac{81}{2401} (6 \cdot 14^5)$

Questions 4–6

4. A box is chosen uniformly from two boxes. Box A contains 28 red and 30 blue balls; box B contains 30 red and 28 blue balls. Two balls are drawn without replacement and both are red. What is the conditional probability that A was chosen?

- (A) $\frac{145}{271}$
- (B) $\frac{63}{271}$
- (C) $\frac{126}{271}$
- (D) $\frac{42}{271}$
- (E) $\frac{397}{542}$

5. If $y' + 14y = 6x^6e^{-14x}$ and $y(0) = 2$, find $y(1)$.

- (A) $\frac{40}{7e^{14}}$
- (B) $\frac{20}{7e^{14}} + 1$
- (C) $\frac{20}{7e^{14}}$
- (D) $\frac{10}{7e^{14}}$
- (E) $-\frac{20}{7e^{14}}$

6. For real t , let $M(t) = \begin{pmatrix} t - 62 & 11 & 0 \\ 0 & t - 62 & 1 \\ 0 & 0 & t - 62 \end{pmatrix}$. At $t = 62$, what is $\dim \ker(M(t)^2) - \dim \ker M(t)$?

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

Questions 7–9

7. If $y'' - 28y' + 196y = 6e^{14x}$ and $y(0) = y'(0) = 0$, find $y(1)$.

- (A) $6e^{14}$
- (B) $\frac{3e^{14}}{2}$
- (C) $-3e^{14}$
- (D) $1 + 3e^{14}$
- (E) $3e^{14}$

8. Let $X_1, \dots, X_{28}$ be independent uniform random variables on $[0, 1]$. What is $E[(\max_i X_i)^2]$?

- (A) $\frac{1}{15}$
- (B) $\frac{7}{15}$
- (C) $\frac{14}{45}$
- (D) $\frac{29}{30}$
- (E) $\frac{14}{15}$

9. What is the radius of convergence about zero of $\sum_{j=1}^{\infty} \frac{(14j)!}{(j!)^{14}} x^{6j}$?

- (A) 14^{-14}
- (B) $\frac{1}{14}$
- (C) $14^{-\frac{3}{7}}$
- (D) $14^{\frac{7}{3}}$
- (E) $14^{-\frac{7}{3}}$

Questions 10–12

10. Let $u = (13, 6)^T$ and $v = (1, 0)^T$. Find the squared distance from $(13, 0)^T$ to $\text{span}(u)$.

- (A) $\frac{5879}{205}$
- (B) $\frac{11963}{410}$
- (C) $\frac{12373}{410}$
- (D) $\frac{6289}{205}$
- (E) $\frac{6084}{205}$

11. Let $f(x) = \log(1 + 14x)$. Find $f^{(6)}(0)$.

- (A) $\frac{1}{6} \left((-1)^5 5! 14^6 \right)$
- (B) $-(-1)^5 5! 14^6$
- (C) $\frac{1}{14} \left((-1)^5 5! 14^6 \right)$
- (D) $6 \left((-1)^5 5! 14^6 \right)$
- (E) $(-1)^5 5! 14^6$

12. Independent trials have success probability $1/28$. Let T count trials up to and including the first success. Find $E[T^2]$.

- (A) 2053
- (B) 2566
- (C) 1540
- (D) 1027
- (E) 514

Questions 13–15

13. Evaluate $\sum_{j=0}^{\infty} \frac{1}{(14+6j)(20+6j)}$.

- (A) $\frac{1}{14}$
- (B) $\frac{1}{84}$
- (C) $\frac{1}{6}$
- (D) $\frac{3}{7}$
- (E) $\frac{1}{20}$

14. An idempotent 68×68 real matrix P has rank 4. What is $\det(I + P)$?

- (A) 16
- (B) 17
- (C) 15
- (D) 18
- (E) 14

15. If $y' = y(1 - y/6)$ and $y(0) = 3$, find $y(-\log 14)$.

- (A) $\frac{2}{5}$
- (B) $\frac{4}{5}$
- (C) $-\frac{2}{5}$
- (D) $\frac{7}{5}$
- (E) $\frac{1}{5}$

Questions 16–18

16. A uniformly random subset of 28 objects is selected from a collection with 29 red and 30 blue objects. If X is the number of red objects selected, find $\text{Var}(X)$.

- (A) $\frac{6510}{3481}$
- (B) $\frac{16501}{3481}$
- (C) $\frac{26040}{3481}$
- (D) $\frac{19982}{3481}$
- (E) $\frac{13020}{3481}$

17. The local inverse $y(x)$ of $x = 14y + y^3$ satisfies $y(0) = 0$. Find $y^{(7)}(0)$.

- (A) $\frac{1}{14} \left(-\frac{60480}{14^{10}} \right)$
- (B) $14 \left(-\frac{60480}{14^{10}} \right)$
- (C) $\frac{1}{5040} \left(-\frac{60480}{14^{10}} \right)$
- (D) $\frac{60480}{14^{10}}$
- (E) $-\frac{60480}{14^{10}}$

18. For $A = \begin{bmatrix} 1 & 0 \\ 1 & 1 \\ 1 & 2 \end{bmatrix}$ and $b = \begin{bmatrix} 62 \\ 11 \\ 73 \end{bmatrix}$, let x minimize $\|Ax - b\|^2$. Find the minimum squared residual.

- (A) $\frac{6383}{3}$
- (B) $\frac{12775}{6}$
- (C) $\frac{6386}{3}$
- (D) $\frac{12769}{6}$
- (E) $\frac{12763}{6}$

Questions 19–21

19. Evaluate $\int_0^{\log 2} e^x (e^x + 14)^6 dx$.

- (A) $-\frac{16^7 - 15^7}{7}$
- (B) $16^6 - 15^6$
- (C) $7 \left(\frac{16^7 - 15^7}{7} \right)$
- (D) $\frac{16^7}{7}$
- (E) $\frac{16^7 - 15^7}{7}$

20. X, Y are independent Poisson variables with means 28 and 29. Given $X + Y = 30$, find $\text{Var}(X | X + Y)$.

- (A) $\frac{16240}{1083}$
- (B) $\frac{8120}{1083}$
- (C) $\frac{1083}{9203}$
- (D) $\frac{1083}{4060}$
- (E) $\frac{1083}{10286}$

21. For $D = \{(x, y) : x^2 + y^2 \leq 14\}$, evaluate $\iint_D (x^2 + y^2)^5 dA$.

- (A) $\frac{7529536\pi}{11}$
- (B) $\frac{7529536\pi}{3}$
- (C) $\frac{3764768\pi}{3}$
- (D) $\frac{268912\pi}{3}$
- (E) 7529536π

Questions 22–24

22. What is the coefficient of x^8 in $(x + 13)^8(1 - x)^3$?

- (A) -109146
- (B) -109145
- (C) -109148
- (D) -109147
- (E) -109149

23. Find the curvature of the helix $r(t) = (14 \cos t, 14 \sin t, 6t)$.

- (A) $\frac{123}{116}$
- (B) $-\frac{7}{116}$
- (C) $\frac{7}{58}$
- (D) $\frac{7}{116}$
- (E) $\frac{7}{232}$

24. For which real a does $f_m(x) = m^a x^{23}(1 - x)^m$ converge uniformly to zero on $[0, 1]$?

- (A) $a < 0$
- (B) $a \leq 23$
- (C) All real a
- (D) $a < 23$
- (E) $a > 23$

Questions 25–27

25. The solution of $y' = 14x^5y^2$, $y(0) = 1$, has its first positive singularity at which x ?
- (A) $\frac{14^{\frac{5}{6}}}{14}$
(B) $\frac{3^{\frac{5}{6}}\sqrt[6]{7}}{3}$
(C) $\frac{14^{\frac{5}{6}}\sqrt[6]{3}}{14}$
(D) $\frac{\sqrt[6]{3} \cdot 7^{\frac{5}{6}}}{7}$
(E) $\frac{3}{7}$
26. A matrix A satisfies $(A - 63I)(A - 65I) = 0$, and its minimal polynomial has degree two. If $A^5 = uA + vI$, find u .
- (A) $3 \cdot 11 \cdot 41 \cdot 71 \cdot 2621$
(B) $2 \cdot 11 \cdot 41 \cdot 71 \cdot 2621$
(C) $41 \cdot 71 \cdot 2621$
(D) $11 \cdot 41 \cdot 71 \cdot 2621$
(E) $5 \cdot 11 \cdot 41 \cdot 71 \cdot 2621$
27. Under $x = u + 14v$, $y = u - 6v$, what is the area of the image of $0 \leq u, v \leq 1$?
- (A) 8
(B) 20
(C) 400
(D) 84
(E) $\frac{1}{20}$

Questions 28–30

28. For which real p does $\sum_{k=2}^{\infty} 1/[k(\log k)^{23p}]$ converge?

- (A) $p \geq 1/23$
- (B) All real p
- (C) $p > 1/23$
- (D) $p < 1/23$
- (E) $p > 0$

29. Two solutions of $y'' + 14x^6y' + 6y = 0$ have Wronskian $W(0) = 1$. Find $W(1)$.

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

30. Let $V = \begin{bmatrix} 1 & 62 & 3844 \\ 1 & 64 & 4096 \\ 1 & 67 & 4489 \end{bmatrix}$. Find $\det(V^T V)$.

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

Questions 31–33

31. Find the coefficient of x^6 in $\cos(14x)/(1 - 5x^2)$.

- (A) $-\frac{470596}{45}$
- (B) -3441136
- (C) $-\frac{215071}{45}$
- (D) $-\frac{215116}{45}$
- (E) $\frac{215071}{45}$

32. How many accumulation points in $\mathbb{R}$ does $S = \{1/k : k \geq 1\} \cup \{23 + 1/k : k \geq 1\}$ have?

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

33. Find the arc length of $r(t) = (14(t - t^3/3), 14t^2)$ for $0 \leq t \leq 1/6$.

- (A) $\frac{763}{162}$
- (B) $\frac{1087}{324}$
- (C) $\frac{763}{648}$
- (D) $-\frac{763}{324}$
- (E) $\frac{763}{324}$

Questions 34–36

34. Let $u = (1, 2, \dots, 68)^T$, $v = (1, 1, \dots, 1)^T$, and $B = I + uv^T$. Find $v^T B^{-1}u$.

- (A) $\frac{11733}{4694}$
- (B) $\frac{4693}{2347}$
- (C) $\frac{2345}{4694}$
- (D) $\frac{2347}{2346}$
- (E) $\frac{7039}{4694}$

35. For the curve $x = t^6$, $y = t^7 + 14t$, find d^2y/dx^2 at $t = 1$.

- (A) $-\frac{7}{4}$
- (B) $\frac{7}{2}$
- (C) $-\frac{7}{3}$
- (D) $\frac{77}{36}$
- (E) $-\frac{21}{2}$

36. How many connected components does $\mathbb{R} \setminus \{1, 2, \dots, 23\}$ have?

- (A) 32
- (B) 24
- (C) 16
- (D) 8
- (E) 40

Questions 37–39

37. For $T = \{x, y, z \geq 0 : x + y + z \leq 1\}$, evaluate $\iiint_T x^{14}y^5 dV$.

- (A) $\frac{1}{90}$
- (B) $6 \left(\frac{14! 5!}{22!} \right)$
- (C) $22 \left(\frac{14! 5!}{22!} \right)$
- (D) $\frac{1}{6} \left(\frac{14! 5!}{22!} \right)$
- (E) $\frac{14! 5!}{22!}$

38. Let $D = \text{diag}(\underbrace{1, \dots, 1}_{12}, \underbrace{2, \dots, 2}_{56})$. Find the dimension of the space of real matrices X with $XD = DX$ and $\text{tr } X = 0$.

- (A) 3280
- (B) 3279
- (C) 3278
- (D) 3281
- (E) 3277

39. Evaluate $\int_C (6x^5 + 14y) dx + (14x + 6y^5) dy$, where C is $r(t) = (t, 2t^2)$, $0 \leq t \leq 1$.

- (A) -93
- (B) 94
- (C) 186
- (D) 93
- (E) $\frac{93}{2}$

Questions 40–42

40. The circle $|z| = 2$ is traversed counterclockwise. What is $\frac{1}{2\pi i} \int_{|z|=2} \frac{e^z}{z^{19}} dz$?

- (A) $1/18!$
- (B) $1/19!$
- (C) $1/17!$
- (D) $18!$
- (E) $1/36!$

41. Let C be $x^2/36 + y^2 = 1$, oriented counterclockwise. Evaluate $\int_C \left(-\frac{14y^3}{3}\right) dx + \left(\frac{x^3}{3}\right) dy$.

- (A) $1 + 75\pi$
- (B) 75π
- (C) -75π
- (D) $\frac{75\pi}{2}$
- (E) 150π

42. In $R = \mathbb{F}_{11}[x]/(x^{14})$, how many elements are units?

- (A) $11^{15} - 11^{13}$
- (B) $11^{14} - 11^{13}$
- (C) $11^{16} - 11^{15}$
- (D) $11^{14} - 11^0$
- (E) $11^{15} - 11^{14}$

Questions 43–45

43. If $f(x, y) = \log(x^2 + y^2)$, $x = e^{14t} \cos(6t)$, and $y = e^{14t} \sin(6t)$, find $d^2 f/dt^2$ at $t = 1$.

- (A) 464
- (B) 784
- (C) 12
- (D) 0
- (E) 28

44. Find the residue of $z^{18}/(z - 1)^3$ at $z = 1$.

- (A) 153
- (B) 102
- (C) 204
- (D) 255
- (E) 51

45. Evaluate $\iiint_B 14z^2(x^2 + y^2 + z^2)^6 dV$, where B is the unit ball.

- (A) $\frac{112\pi}{51}$
- (B) $\frac{56\pi}{51}$
- (C) $\frac{28\pi}{51}$
- (D) $-\frac{56\pi}{51}$
- (E) $1 + \frac{56\pi}{51}$

Questions 46–48

46. Integers x satisfy $x \equiv 3 \pmod{5}$ and $x \equiv 4 \pmod{8}$. Find the sum of all such x with $0 \leq x < 80$.

- (A) 98
- (B) 97
- (C) 95
- (D) 96
- (E) 94

47. Solve $y' + 14y = x^6 e^{-14x}$, $y(0) = 0$, and find $y(1)$.

- (A) $\frac{e^{14}}{7}$
- (B) $\frac{1}{6e^{14}}$
- (C) $\frac{1}{7e^{14}}$
- (D) e^{-14}
- (E) $\frac{2}{e^{14}}$

48. How many functions from a set of 28 elements onto a set of 3 elements exist?

- (A) $3^{28} - 3(2^{28}) + 3$
- (B) $3^{28} - 3(2^{28})$
- (C) $3^{28} - 3(2^{28}) - 3$
- (D) 3^{28}
- (E) $3^{28} - 2^{28}$

Questions 49–51

49. Evaluate $\lim_{x \rightarrow 0} \frac{\sin(14x) - \sum_{j=0}^4 (-1)^j (14x)^{2j+1} / (2j+1)!}{x^{11}}$.

- (A) $-\frac{(-1)^5 14^{11}}{11!}$
(B) $11 \left(\frac{(-1)^5 14^{11}}{11!} \right)$
(C) $\frac{(-1)^5 14^{11}}{11!}$
(D) $\frac{1}{14} \left(\frac{(-1)^5 14^{11}}{11!} \right)$
(E) $14 \left(\frac{(-1)^5 14^{11}}{11!} \right)$

50. The symmetric group S_{68} acts on the two-element subsets of $\{1, \dots, 68\}$. What is the index of the setwise stabilizer of $\{1, 2\}$?

- (A) 2277
(B) 2278
(C) 2280
(D) 2276
(E) 2279

51. What is the maximum of $x^6 y^{14}$ over $x, y \geq 0$ subject to $x + y = 1$?

- (A) $\left(\frac{6}{20}\right)^6 \left(\frac{14}{20}\right)^{14}$
(B) $\frac{1}{2^{20}}$
(C) $\left(\frac{6}{20}\right)^{14} \left(\frac{14}{20}\right)^6$
(D) $\frac{21}{100}$
(E) $20 \left(\left(\frac{6}{20}\right)^6 \left(\frac{14}{20}\right)^{14} \right)$

Questions 52–54

52. How many nonnegative integer triples sum to 56, if each coordinate is at most 28?

- (A) 435
- (B) 290
- (C) 145
- (D) 725
- (E) 580

53. Evaluate $\int_0^1 x^{14}(1-x)^5 dx$.

- (A) $\frac{14! 5!}{20!}$
- (B) $20 \left(\frac{14! 5!}{20!} \right)$
- (C) $2584 \left(\frac{14! 5!}{20!} \right)$
- (D) $15 \left(\frac{14! 5!}{20!} \right)$
- (E) $\frac{1}{6} \left(\frac{14! 5!}{20!} \right)$

54. In $\mathbb{Z}/1986\mathbb{Z}$, how many residues are not idempotent ($x^2 \neq x$)?

- (A) 1980
- (B) 1977
- (C) 1978
- (D) 1976
- (E) 1979

Questions 55–57

55. Let C be the unit circle $x^2 + y^2 = 1$, $z = 6$, counterclockwise viewed from above. Evaluate $\int_C -14y(x^2 + y^2)^5 dx + (14x(x^2 + y^2)^5) dy + 2z dz$.

- (A) -28π
- (B) 28π
- (C) 14π
- (D) $1 + 28\pi$
- (E) 56π

56. A tree has 28 vertices of degree 3; every other vertex has degree 1. How many leaves does it have?

- (A) 30
- (B) 20
- (C) 10
- (D) 50
- (E) 40

57. For $x > 0$, $x^2 y'' + (1 - 20)xy' + 84y = 0$, $y(1) = 0$, $y'(1) = 14$. Find $y(e)$.

- (A) $\frac{e^{14}}{20}$
- (B) $-e^6 + e^{14}$
- (C) $\frac{7(1 - e^8)e^6}{4}$
- (D) $e^6 + e^{14}$
- (E) $-\frac{7(1 - e^8)e^6}{4}$

Questions 58–60

58. In the additive group $\mathbb{Z}/96\mathbb{Z}$, find the index of the subgroup generated by $[2]$.

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

59. Find the total outward flux of $\mathbf{F} = (14x^6y, y^6z, xz^6)$ through the boundary of $[0, 1]^3$.

- (A) -8
- (B) 9
- (C) 8
- (D) 4
- (E) 16

60. A connected planar graph has 31 vertices and 57 edges. How many faces, including the unbounded face, are in a planar embedding?

- (A) 10
- (B) 19
- (C) 46
- (D) 28
- (E) 37

Questions 61–63

61. A lamina occupies $0 \leq x \leq 1$, $0 \leq y \leq 14x$ and has density $\rho(x, y) = x^4y$. Find its centroid coordinate $\bar{x}$.

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

62. How many invertible 4×4 matrices over $\mathbb{F}_{41}$ are there whose first column is $(1, 0, 0, 0)^T$?

- (A) $\frac{(41^4 - 41^0)(41^4 - 41^1)(41^4 - 41^2)(41^4 - 41^3)}{41^4 - 1}$
- (B) $\frac{(41^4 - 41^0)(41^4 - 41^1)(41^4 - 41^2)}{41^4 - 1}$
- (C) $\frac{(41^4 - 41^0)(41^4 - 41^0)(41^4 - 41^0)(41^4 - 41^0)}{41^4 - 1}$
- (D) $\frac{41^4 41^4 41^4 41^4}{41^4 - 1}$
- (E) $\frac{(41^4 - 41^1)(41^4 - 41^2)(41^4 - 41^3)(41^4 - 41^4)}{41^4 - 1}$

63. Let $\mathbf{F} = (14y^6, z^6, x^6)$. Find $(\nabla \times \mathbf{F})(1, 1, 1) \cdot (1, 1, 2)/\sqrt{6}$.

- (A) $1 - 30\sqrt{6}$
- (B) $-60\sqrt{6}$
- (C) $30\sqrt{6}$
- (D) $-30\sqrt{6}$
- (E) $-15\sqrt{6}$

Questions 64–66

64. How many integers in $\{1, \dots, 168\}$ are divisible by 2 or 3?

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

65. Evaluate $\int_0^1 \int_x^1 14y^6 \, dy \, dx$.

- (A) 2
- (B) 7
- (C) $\frac{1}{4}$
- (D) $\frac{7}{4}$
- (E) $\frac{7}{3}$

66. How many permutations in S_{68} consist of one 4-cycle and 64 fixed points?

- (A) $3 \cdot 5 \cdot 11 \cdot 13 \cdot 17 \cdot 67$
- (B) $2 \cdot 3 \cdot 5^2 \cdot 11 \cdot 13 \cdot 17 \cdot 67$
- (C) $2^2 \cdot 3 \cdot 5 \cdot 11 \cdot 13 \cdot 17 \cdot 67$
- (D) $2 \cdot 3^2 \cdot 5 \cdot 11 \cdot 13 \cdot 17 \cdot 67$
- (E) $2 \cdot 3 \cdot 5 \cdot 11 \cdot 13 \cdot 17 \cdot 67$

Answer Key

Practice Test 66 / Questions 1–66

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

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