



Puzzles

ANALYTICAL REASONING · PRACTICE WORKBOOK

Three tiers of practice — medium, tough, very tough. Floors, boxes, grids, schedules and stacks whose height is not given. No teaching: the concept book does that, and this is the paper.

Medium · Tough · Very tough · 575 Questions

Contents

3 tiers and 575 questions — then a back section you will use more than any single tier. Everything below is on the page the dots point to.

THE THREE TIERS

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REFERENCE, AND HOW TO USE THE PAPER

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How this book works

This is the paper, not the lesson. There is nothing to read before you start: every page is a set of clues and the questions that hang off it. If you want the method, it is in the concept book — this volume assumes you have it.

THE TIERS ARE MEASURED, NOT LABELLED. A question's tier is how many of the printed clues you must actually consume before its answer is fixed. Tier 1 needs five or six. Tier 2 needs seven to nine. Tier 3 needs ten or more. That was proved for every question when its set was frozen; nothing here is called hard to flatter you.

WORK ONE SET, TIMED, THEN MARK IT. Five questions hang off each set of clues, so a wrong grid costs you five marks and not one. Finish a tier before you open the next.

SOME SETS DO NOT RESOLVE. A few are built so that two arrangements fit every clue. There, 'cannot be determined' is the correct answer, and 'definitely true' means true in both — not true in the one you happened to find.

WHERE THE SOLUTIONS ARE. The Solutions Companion carries the full working for every question, and prints the solved arrangement each set hangs on. The short answer key at the back of this book is for checking, not for learning.

TIER 1

Medium

Every question here needs five or six of the printed clues. That is where the concept book stops. 42 sets, 210 questions, 5–6 clues consumed per question — measured when each set was proved, not declared here.

HOW EVERY SET IN THIS CHAPTER IS GRADED

One value per person per column, and one person per value. Nothing here is seated, so left, right, above and below never apply.

The number of levels is NOT given outright: the question states the range it lies in, and the clues fix it. Some levels may be empty. Levels are numbered 1 upward: level 1 is the lowest. 'Above' means a higher-numbered level. An empty level still counts when you count levels between two people. Nothing in a stack faces anywhere, so left and right never apply. 'Exactly N levels lie between A and B' counts the levels STRICTLY between them: levels 2 and 5 have two levels between them, not three.

The days run in the order printed in the question and no others are used. 'Before' means earlier in that printed order and 'after' means later. 'Immediately before' means the very next day in the list, with no listed day in between. Nobody faces anywhere, so left and right never apply. 'Exactly N days lie between A's slot and B's' counts the days STRICTLY between them: the second and the fifth day of the printed order have two days between them, not three.

Levels are numbered 1 upward: level 1 is the lowest and level N the highest. 'Above' means a higher-numbered level and 'below' a lower one. Nothing in a stack faces anywhere, so left and right never apply. 'Immediately above' means exactly one level higher. 'Exactly N levels lie between A and B' counts the levels STRICTLY between them: levels 2 and 5 have two levels between them, not three.

One value per person in EVERY column, and one person per value in every column. The columns are independent: knowing a person's profession tells you nothing about their city until a clue links the two. Nothing here is seated, so left, right, above and below never apply.

Each set repeats this in one line. This is the full rule, and it is the one your answers are marked against.

READ THE DATA BELOW – QUESTIONS 1–5

Level 1 is the lowest. 'Immediately above' means exactly one level up.

Six people — Bhumika, Damini, Eshan, Chetan, Aarav and Falguni — live on the six shelves of a building, numbered one to six from the bottom, one on each shelf. Falguni is on shelf 6. Aarav is immediately above Chetan. Exactly 1 shelf lie between Chetan and Falguni. Exactly 5 people live above Bhumika. Damini is on shelf 2.

1. **L3** Which shelf does Eshan live on?

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

2. **L3** Who lives on shelf 3?

- (A) Damini (B) Bhumika (C) Eshan (D) Chetan

3. **L3** How many shelves above Bhumika does Eshan live?

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

4. **L3** How many shelves above Damini does Eshan live?

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

5. **L3** If Chetan and Aarav interchange their shelves, who then lives immediately above Eshan?

- (A) Bhumika (B) Aarav (C) Damini (D) Falguni

READ THE DATA BELOW – QUESTIONS 6–10

Level 1 is the lowest. 'Immediately above' means exactly one level up.

Seven people — Imran, Falguni, Harini, Kunal, Leena, Girish and Jyoti — live on the seven racks of a building, numbered one to seven from the bottom, one on each rack. Jyoti is somewhere above Imran. Exactly 1 rack lie between Leena and Harini. Exactly 1 person lives above Girish. Harini is immediately above Falguni. Exactly 3 racks lie between Imran and Leena. Leena is somewhere above Kunal.

6. **L3** Which rack does Imran live on?

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

7. **L3** How many people live above Imran?

- (A) 6 (B) 5 (C) 4 (D) 3

8. **L3** Which rack does Kunal live on?

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

9. **L3** How many people live above Kunal?

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

10. **L3** Who lives on rack 1?

- (A) Harini (B) Falguni (C) Imran (D) Kunal

READ THE DATA BELOW – QUESTIONS 11–15

Level 1 is the lowest. 'Immediately above' means exactly one level up.

Six people — Nandita, Omkar, Leena, Pallavi, Manav and Rehan — live on the six tiers of a building, numbered one to six from the bottom, one on each tier. Exactly 1 tier lie between Leena and Manav. Pallavi is somewhere above Leena. Manav is somewhere above Nandita. Exactly 1 tier lie between Leena and Nandita. Rehan is somewhere above Manav.

11. **L3** Which tier does Omkar live on?

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

12. **L3** How many people live above Omkar?

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

13. **L3** Who lives on tier 2?

- (A) Omkar (B) Nandita (C) Leena (D) Pallavi

14. **L3** Who lives on tier 4?

(A) Omkar

(B) Nandita

(C) Pallavi

(D) Leena

15. **L3** How many tiers above Nandita does Omkar live?

(A) 3

(B) 2

(C) 1

(D) 4

READ THE DATA BELOW – QUESTIONS 16–20

Level 1 is the lowest. 'Immediately above' means exactly one level up.

Seven people — Vikram, Wasim, Sanjana, Yamini, Tarun, Rehan and Urvashi — live on the seven steps of a building, numbered one to seven from the bottom, one on each step. Urvashi is somewhere above Rehan. Yamini is immediately above Sanjana. Exactly 5 people live above Wasim. Tarun is on step 5. Exactly 1 step lie between Sanjana and Vikram. Tarun is immediately above Yamini.

16. **L3** How many steps above Vikram does Rehan live?

(A) 4

(B) 5

(C) 6

(D) 3

17. **L3** How many steps above Sanjana does Rehan live?

(A) 4

(B) 2

(C) 3

(D) 1

18. **L3** Which step does Rehan live on?

(A) 4

(B) 5

(C) 7

(D) 6

19. **L3** Which step does Urvashi live on?

(A) 5

(B) 6

(C) 7

(D) 4

20. **L3** How many people live above Urvashi?

(A) 1

(B) 0

(C) 2

(D) 3

READ THE DATA BELOW – QUESTIONS 21–25

One value per person per column, one person per value.

Five people — Yamini, Zubin, Ananya, Bharat and Charu — each have one value in every column. The five job values are chemist, dentist, editor, geologist and hydrologist. The five sport values are badminton, chess, diving, fencing and gymnastics. The editor plays fencing. Bharat plays diving. Whoever plays gymnastics is the geologist. Ananya is the geologist. Whoever plays diving is the chemist. Yamini is the hydrologist. Charu plays badminton.

21. **L3** What does Yamini play?

(A) fencing

(B) badminton

(C) diving

(D) chess

22. **L3** What is Zubin's profession?

(A) geologist

(B) chemist

(C) dentist

(D) editor

23. **L3** What does Zubin play?

(A) fencing

(B) badminton

(C) chess

(D) diving

24. **L3** What is Charu's profession?

(A) editor

(B) chemist

(C) dentist

(D) geologist

25. **L3** Who is the dentist?

(A) Zubin

(B) Yamini

(C) Charu

(D) Ananya

READ THE DATA BELOW – QUESTIONS 26–30

One value per person per column, one person per value.

Five people — Charu, Devansh, Ekansh, Firoza and Gaurav — each have one value in every column. The five job values are chemist, dentist, editor, geologist and hydrologist. The five subject values are geography, zoology, economics, linguistics and astronomy. Ekansh does not study astronomy. Whoever studies geography is the hydrologist. Charu studies zoology. Whoever studies economics is the dentist. Devansh is the geologist. Whoever studies zoology is the editor. Whoever studies linguistics is the geologist. Gaurav studies geography.

26. ^{L3} What is Ekansh's profession?

- (A) chemist (B) dentist (C) editor (D) geologist

27. ^{L3} Who is the dentist?

- (A) Ekansh (B) Charu (C) Devansh (D) Firoza

28. ^{L3} What does Ekansh study?

- (A) linguistics (B) astronomy (C) geography (D) economics

29. ^{L3} What does Firoza study?

- (A) astronomy (B) economics (C) geography (D) linguistics

30. ^{L3} Who studies astronomy?

- (A) Firoza (B) Charu (C) Devansh (D) Ekansh

READ THE DATA BELOW – QUESTIONS 31–35

One value per person per column, one person per value.

Five people — Gaurav, Hansika, Ibrahim, Jaideep and Kavita — each have one value in every column. The five city values are Dhanbad, Erode, Gwalior, Hubli and Jorhat. The five food values are dhokla, idli, khandvi, litti and momo. Gaurav orders the dhokla. The person from Erode orders the khandvi. Ibrahim lives in Gwalior. The person from Gwalior orders the litti. Kavita lives in Dhanbad. The person from Jorhat orders the idli. Hansika does not live in Jorhat.

31. ^{L3} Where does Hansika live?

- (A) Dhanbad (B) Erode (C) Gwalior (D) Hubli

32. ^{L3} What does Hansika order?

- (A) khandvi (B) dhokla (C) idli (D) litti

33. ^{L3} Who lives in Erode?

- (A) Jaideep (B) Gaurav (C) Ibrahim (D) Hansika

34. ^{L3} Where does Gaurav live?

- (A) Erode (B) Dhanbad (C) Hubli (D) Gwalior

35. ^{L3} What does Jaideep order?

- (A) dhokla (B) idli (C) khandvi (D) litti

READ THE DATA BELOW – QUESTIONS 36–40

One value per person in EVERY column, one person per value.

Four people — Kavita, Lokesh, Meera and Nikhil — each have one value in every column. The four food values are dhokla, idli, khandvi and litti. The four job values are editor, geologist, hydrologist and jeweller. The four subject values are geography, zoology, economics and linguistics. Whoever studies zoology is the hydrologist. Kavita orders the khandvi. Whoever studies economics is the jeweller. The hydrologist orders the idli. Whoever studies linguistics is the geologist. Nikhil is the hydrologist. Whoever orders the dhokla is the geologist. Whoever orders the khandvi is the editor. Meera is the geologist.

36. **L3** What does Kavita study?

- (A) geography (B) economics (C) linguistics (D) zoology

37. **L3** What does Lokesh order?

- (A) litti (B) dhokla (C) idli (D) khandvi

38. **L3** What does Lokesh study?

- (A) geography (B) economics (C) linguistics (D) zoology

39. **L3** Who orders the litti?

- (A) Meera (B) Kavita (C) Lokesh (D) Nikhil

40. **L3** Who studies geography?

- (A) Nikhil (B) Lokesh (C) Meera (D) Kavita

READ THE DATA BELOW – QUESTIONS 41–45

One value per person in EVERY column, one person per value.

Four people — Nikhil, Ojas, Priya and Rakesh — each have one value in every column. The four city values are Bikaner, Cuttack, Dhanbad and Erode. The four colour values are emerald, fuchsia, gold and ivory. The four subject values are logic, ethics, statistics and geography. The ivory bag belongs to the person from Erode. Priya lives in Dhanbad. The ivory bag belongs to whoever studies logic. Ojas's bag is emerald. The person from Cuttack studies geography. The person from Cuttack carries the fuchsia bag. Priya does not study statistics. Rakesh's bag is ivory.

41. **L3** What does Nikhil study?

- (A) statistics (B) ethics (C) logic (D) geography

42. **L3** What does Priya study?

- (A) ethics (B) geography (C) logic (D) statistics

43. **L3** Who studies ethics?

- (A) Ojas (B) Nikhil (C) Priya (D) Rakesh

44. **L3** Who studies geography?

- (A) Priya (B) Ojas (C) Nikhil (D) Rakesh

45. **L3** What does the person from Bikaner study?

- (A) statistics (B) ethics (C) geography (D) logic

READ THE DATA BELOW – QUESTIONS 46–50

Days run in the printed order; 'before' means earlier in it.

Seven people — Yash, Tanmay, Varun, Ujjwal, Suhani, Rakesh and Waseem — have one slot each, on seven different days: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday, in that order. Yash's slot is immediately before Tanmay's. Yash's slot is on Monday. Exactly 1 day lie between Yash's slot and Varun's. Rakesh's slot is immediately before Waseem's. Waseem's slot is on Sunday. Varun's slot is immediately before Ujjwal's.

46. **L3** On which day is Suhani's slot?

- (A) Monday (B) Friday (C) Tuesday (D) Wednesday

47. **L3** How many days lie between Yash's slot and Suhani's?

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

48. **L3** How many days lie between Varun's slot and Suhani's?

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

49. **L3** Whose slot is on Friday?

- (A) Suhani (B) Yash (C) Tanmay (D) Varun

50. **L3** Which of the following is true?

- (A) Waseem's slot is some day before Rakesh's
 (B) Waseem's slot is some day before Ujjwal's
 (C) Suhani's slot is immediately before Rakesh's
 (D) Tanmay's slot is immediately before Yash's

READ THE DATA BELOW – QUESTIONS 51–55

Days run in the printed order; 'before' means earlier in it.

Seven people — Zoya, Bikram, Chhavi, Yash, Anaya, Eshaan and Dhruvi — have one slot each, on seven different days: January, February, March, April, May, June and July, in that order. Exactly 5 days lie between Zoya's slot and Dhruvi's. Yash's slot is immediately before Anaya's. Zoya's slot is some day before Eshaan's. Exactly 1 day lie between Chhavi's slot and Zoya's. Exactly 4 days lie between Eshaan's slot and Zoya's.

51. **L3** On which day is Bikram's slot?

- (A) February (B) January (C) March (D) April

52. **L3** On which day is Yash's slot?

- (A) March (B) January (C) February (D) April

53. **L3** How many days lie between Bikram's slot and Yash's?

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

54. **L3** How many days lie between Bikram's slot and Anaya's?

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

55. **L3** Whose slot is on February?

- (A) Yash (B) Zoya (C) Chhavi (D) Bikram

READ THE DATA BELOW – QUESTIONS 56–60

Level 1 is the lowest. How many levels there are is NOT given — only the range.

Six people — Eshaan, Farhan, Gitika, Hriday, Ishita and Jeevan — live on different racks of a building with between six and seven racks. Some racks may be empty. Nobody lives above Farhan. The building has exactly 6 floors. Ishita is on rack 5. Exactly 4 racks lie between Eshaan and Farhan. Exactly 3 people live above Hriday. Gitika is immediately above Hriday.

56. **L3** How many racks above Eshaan does Jeevan live?

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

57. **L3** How many racks above Jeevan does Farhan live?

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

58. **L3** If Gitika and Ishita interchange their racks, who then lives immediately above Eshaan?

- (A) Gitika (B) Hriday (C) Farhan (D) Jeevan

59. **L3** Which rack does Jeevan live on?

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

60. **L3** In which of the following pairs does the first person live immediately above the second?

- (A) Eshaan — Hriday (B) Eshaan — Jeevan
 (C) Hriday — Jeevan (D) Eshaan — Gitika

READ THE DATA BELOW – QUESTIONS 61–65

One value per person per column, one person per value.

Five people — Jeevan, Kiran, Lavanya, Mahesh and Naina — each have one value in every column. The five city values are Bikaner, Cuttack, Dhanbad, Erode and Gwalior. The five sport values are chess, diving, fencing, gymnastics and hockey. Whoever plays fencing lives in Cuttack. Mahesh does not play hockey. Jeevan lives in Erode. The person from Gwalior plays diving. Lavanya does not play fencing. Naina lives in Gwalior. Whoever plays gymnastics lives in Dhanbad. Whoever plays chess lives in Erode. Mahesh does not play fencing.

61. [L3] What does Mahesh play?

- (A) diving (B) chess (C) gymnastics (D) fencing

62. [L3] Who plays gymnastics?

- (A) Kiran (B) Jeevan (C) Lavanya (D) Mahesh

63. [L3] Where does Kiran live?

- (A) Cuttack (B) Bikaner (C) Dhanbad (D) Erode

64. [L3] What does Kiran play?

- (A) gymnastics (B) chess (C) diving (D) fencing

65. [L3] Who lives in Cuttack?

- (A) Kiran (B) Jeevan (C) Lavanya (D) Mahesh

READ THE DATA BELOW – QUESTIONS 66–70

Level 1 is the lowest. 'Immediately above' means exactly one level up.

Seven people — Poorvi, Naina, Onkar, Tejas, Uma, Rohit and Saanvi — live on the seven steps of a building, numbered one to seven from the bottom, one on each step. Saanvi is somewhere above Poorvi. Exactly 2 steps lie between Saanvi and Tejas. Exactly 1 person lives above Rohit. Exactly 5 steps lie between Saanvi and Poorvi. Exactly 2 people live above Uma. Exactly 4 people live above Onkar.

66. [L3] How many steps above Poorvi does Naina live?

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

67. [L3] How many steps above Naina does Saanvi live?

- (A) 3 (B) 4 (C) 6 (D) 5

68. [L3] If Onkar and Saanvi interchange their steps, who then lives immediately above Poorvi?

- (A) Uma (B) Tejas (C) Naina (D) Rohit

69. [L3] Which step does Naina live on?

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

70. [L3] Which of the following is true?

- (A) Naina lives somewhere above Onkar (B) Tejas lives immediately above Uma
(C) Onkar lives immediately above Uma (D) Naina lives on step 2

READ THE DATA BELOW – QUESTIONS 71–75

Level 1 is the lowest. 'Immediately above' means exactly one level up.

Six people — Wasim, Sanjana, Vikram, Tarun, Yamini and Urvashi — live on the six shelves of a building, numbered one to six from the bottom, one on each shelf. Exactly 1 shelf lie between Vikram and Wasim. Exactly 3 shelves lie between Yamini and Wasim. Wasim is not on shelf 6. Exactly 4 shelves lie between Wasim and Urvashi. Tarun is somewhere above Sanjana.

71. [L3] Which shelf does Sanjana live on?

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

72. **L3** How many people live above Sanjana?

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

73. **L3** Who lives on shelf 2?

- (A) Sanjana (B) Wasim (C) Vikram (D) Tarun

74. **L3** Who lives on shelf 4?

- (A) Wasim (B) Tarun (C) Sanjana (D) Vikram

75. **L3** How many shelves above Wasim does Sanjana live?

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

READ THE DATA BELOW – QUESTIONS 76–80

Level 1 is the lowest. 'Immediately above' means exactly one level up.

Seven people — Devansh, Yamini, Zubin, Ananya, Charu, Ekansh and Bharat — live on the seven racks of a building, numbered one to seven from the bottom, one on each rack. Zubin is immediately above Yamini. Ekansh is somewhere above Devansh. Exactly 2 racks lie between Charu and Yamini. Exactly 3 people live above Ananya. Ekansh is on rack 6.

76. **L3** Which rack does Devansh live on?

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

77. **L3** How many people live above Devansh?

- (A) 3 (B) 5 (C) 4 (D) 6

78. **L3** Which rack does Bharat live on?

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

79. **L3** How many people live above Bharat?

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

80. **L3** Who lives on rack 1?

- (A) Devansh (B) Yamini (C) Zubin (D) Ananya

READ THE DATA BELOW – QUESTIONS 81–85

Level 1 is the lowest. 'Immediately above' means exactly one level up.

Six people — Firoza, Hansika, Jaideep, Ekansh, Ibrahim and Gaurav — live on the six tiers of a building, numbered one to six from the bottom, one on each tier. Exactly 2 tiers lie between Gaurav and Jaideep. Exactly 4 people live above Hansika. Ekansh is somewhere above Firoza. Nobody lives above Gaurav. Ekansh is not on tier 5.

81. **L3** Which tier does Firoza live on?

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

82. **L3** How many people live above Firoza?

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

83. **L3** Which tier does Ekansh live on?

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

84. **L3** How many people live above Ekansh?

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

85. **L3** Who lives on tier 1?

- (A) Hansika (B) Firoza (C) Jaideep (D) Ekansh

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