75 Logical Reasoning Interview Questions to Assess Candidates

Questions

1. You have a 5-liter jug and a 3-liter jug. How would you measure exactly 4 liters of water?

2. If you have a basket containing 5 apples and you take away 3, how many apples do you have?

3. A farmer has 17 sheep. All but 9 die. How many sheep are left?

4. How many months have 28 days?

5. You're in a race and you pass the person in second place. What position are you in now?

6. A doctor gives you three pills and tells you to take one every half hour. How long will the pills last?

7. If a red house is made from red bricks, a blue house is made from blue bricks, what is a greenhouse made of?

8. You have two hourglasses: one measures 4 minutes, and the other measures 7 minutes. How can you measure exactly 9 minutes?

9. If it takes 5 machines 5 minutes to make 5 widgets, how long would it take 100 machines to make 100 widgets?

10. A man buys a horse for $60, sells it for $70, buys it back for $80, and finally sells it for $90. How much profit did he make?

11. How would you determine if a particular problem has a unique solution or multiple solutions?

12. Imagine you are given a large dataset. How would you identify any anomalies within it?

13. What steps would you take to break down a complex problem into manageable parts?

14. Can you describe a time when you had to make a decision with incomplete information?

15. How would you approach solving a problem where resources are limited?

16. If you encountered conflicting information while analyzing data, how would you resolve it?

17. Describe a scenario where you had to use logical reasoning to solve a problem at work.

18. How would you handle a situation where you realized you made an error in your analysis?

19. Can you explain the importance of logical reasoning in your role as an analyst?

20. If you have eight balls and one of them is heavier, how would you find the heavier ball using a balance scale in just two weighings?

21. Explain how you would approach solving a problem if you are given two different solutions from two different team members.

22. How would you prioritize tasks if you are given multiple assignments with tight deadlines?

23. Describe a method you would use to find duplicate records in a database.

24. If you were given a complex report with some missing data, how would you handle the situation?

25. How would you solve a problem if the standard approach is not working?

26. Imagine you are given a series of numbers. How would you determine if there is a pattern?

27. If you were asked to create a schedule for a project but the requirements keep changing, how would you manage it?

28. What logical steps would you take to troubleshoot an issue in a software application?

29. Describe a situation where you had to use data to make a recommendation. What was your process?

30. If you have a set of rules and one contradicts the other, how would you resolve the conflict?

31. How would you determine the root cause of a problem if initial tests don’t provide clear answers?

32. Explain how you would approach a logical puzzle where the solution is not immediately obvious.

33. If you need to explain a complex logical concept to a non-technical person, how would you go about it?

34. How would you verify the accuracy of a result in a logical reasoning task?

35. You have a 9x9 square grid. How would you place 8 queens on this grid so that no two queens can attack each other?

36. How would you design a system to detect fraudulent transactions in real-time for a large e-commerce platform?

37. Imagine you're in a room with three light switches, each connected to a lamp in an adjacent room. You can't see the lamps from where you are. How would you determine which switch controls which lamp if you can only enter the adjacent room once?

38. How would you estimate the number of tennis balls that can fit in a Boeing 747?

39. You have a 5-gallon jug and a 3-gallon jug. How would you measure exactly 4 gallons of water?

40. How would you design an algorithm to find the shortest path between two points in a city, considering traffic conditions?

41. You have a balance scale and 8 identical-looking coins. One coin is slightly heavier than the rest. How would you identify the heavier coin using only two weighings?

42. How would you determine if a large number is divisible by 3 without using a calculator?

43. How would you approach analyzing a large dataset to identify trends and patterns?

44. Explain how you would design an experiment to test the effectiveness of a new product feature.

45. If you noticed a sudden spike in customer complaints, how would you investigate the root cause?

46. How would you determine the optimal pricing strategy for a new service?

47. Describe your process for validating the accuracy of data from multiple sources.

48. How would you identify potential biases in a machine learning model?

49. Explain your approach to forecasting sales for the next quarter based on historical data.

50. How would you design a system to detect and prevent fraud in financial transactions?

51. Describe how you would analyze the impact of a marketing campaign on user engagement.

52. How would you determine the most efficient route for a delivery service in a large city?

53. Explain your method for identifying key performance indicators for a new business initiative.

54. How would you approach optimizing the inventory management system for a retail chain?

55. If you see the sequence 2, 6, 12, 20, 30, what would be the next number and why?

56. In a grid of numbers, how would you identify a hidden pattern or relationship?

57. Given a series of shapes: circle, square, triangle, circle, square, what comes next?

58. How would you continue this letter sequence: A, C, F, J, O?

59. If you notice that every third customer complaint mentions a specific feature, what might this indicate?

60. In a sequence of playing cards, how would you determine the rule for their arrangement?

61. Given a set of seemingly random numbers, how would you approach finding a pattern?

62. If you observe that website traffic spikes every 7 days, what conclusion might you draw?

63. How would you identify the odd one out in this group: Apple, Orange, Banana, Carrot, Grape?

64. If you see a repeating pattern in customer behavior, how might you use this information?

65. Describe a time when you had to make a quick decision with limited information. How did you approach it?

66. Tell me about a situation where you had to identify a pattern in complex data. What was your process?

67. Can you share an experience where you had to break down a large project into smaller, manageable tasks?

68. How would you approach prioritizing multiple urgent tasks with conflicting deadlines?

69. Describe a time when you had to explain a complex concept to someone with no technical background.