

# Logical Reasoning Questions with Answers for Freshers

## Number Series Reasoning Questions and Answers

A number series is a succession of numbers that, in logical reasoning, requires the identification of the pattern or rule regulating the sequence in order to determine the missing or following number in the series.

Practice number series questions are given below for your fresher's interview-

**Question 1:** What is the following number in the series? 2, 4, 8, 16, 32, \_\_\_

**Answer:** The pattern is doubling the previous number. So, the following number is 64.

**Question 2:** Find the missing number in the series: 3, 6, 9, \_\_\_, 15, 18

**Answer:** The pattern is adding 3 to each number. So, the missing number is 12.

**Question 3:** What comes next in the series? 5, 10, 15, 20, 25, \_\_\_

**Answer:** The pattern is adding 5 to each number. So, the next number is 30.

**Question 4:** Fill in the blank: 12, 10, 8, 6, \_\_\_, 2

**Answer:** The pattern is subtracting 2 from each number. So, the number that needs to be added is 4.

**Question 5:** What is the following number in the series? 1, 3, 6, 10, 15, \_\_\_

**Answer:** The pattern is increasing the previous number by consecutive integers. So, the next number is 21.

## Verbal Classification Reasoning Questions

Verbal classification is a cognitive process that includes grouping words or thoughts into categories based on shared traits or connections in order to highlight similarities and differences. Practicing the verbal classification logical reasoning questions will help the candidates both in the job interview and for other competitive exams.

**Question 1:** Which word does not belong to the group? - Apple, Orange, Banana, Tomato

**Answer:** Tomato; as it is a fruit while the others are all types of fruits.

**Question 2:** Which word is least related to the others? - Cat, Dog, Horse, Table

**Answer:** Table, as it is not an animal while the others are all animals.

**Question 3:** Which word is different from the rest? - Circle, Square, Triangle, Rectangle

**Answer:** Circle; as it is a curved shape while the others are all polygons.

**Question 4:** Which word does not fit in the category? - Carrot, Potato, Lettuce, Apple

**Answer:** Apple, as it is a fruit while the others are all vegetables.

**Question 5:** Which word is the odd one out? - Happy, Sad, Joyful, Angry

**Answer:** Joyful, as it does not describe a negative emotion while the others do.

## Logical Reasoning Questions with Answers on Analogies

In order to establish an analogy, two sets of words or concepts must first be identified and their relationships must be understood. The relationship between the two sets of terms or concepts must then be applied to establish an analogous relationship between another group of terms or concepts.

Practice the frequently asked logical reasoning questions with answers on analogies.

**Question 1:** Complete the analogy: Ocean is to water as the desert is to \_\_\_\_\_.

- a) Sand
- b) Cactus
- c) Heat
- d) Dunes

**Answer:** The analogy is based on the characteristic or components associated with each environment. The ocean is primarily composed of water, while deserts are primarily composed of sand. Thus, the correct answer is option 'A' - Sand.

**Question 2:** Complete the analogy: Pen is to ink as the pencil is to \_\_\_\_\_.

- a) Paper
- b) Eraser
- c) Graphite
- d) Lead

**Answer:** The analogy focuses on the writing material associated with each writing instrument. Pens use ink, while pencils use graphite for writing. Thus, the correct answer is option 'C' - Graphite.

**Question 3:** Complete the analogy: Lion is to a carnivore as the cow is to \_\_\_\_\_.

- a) Predator
- b) Herbivore
- c) Grass
- d) Meat

**Answer:** The correct answer is option 'B' - Herbivore. The analogy is based on the feeding behavior or diet of each animal. Lions are carnivores, meaning they eat meat, while cows are herbivores, meaning they primarily consume plants.

**Question 4:** Complete the analogy: Marathon is to race as a novel is to \_\_\_\_\_.

- a) Reading
- b) Writing

- c) Author
- d) Book

**Answer:** The correct answer is option 'D' - Book. The analogy compares the nature or category of an event. A marathon is a type of race, just as a novel is a type of book.

**Question 5:** Complete the analogy: Knife is to cut as the hammer is to \_\_\_\_\_.

- a) Break
- b) Repair
- c) Construct
- d) Nails

**Answer:** The analogy focuses on the action associated with each tool. A knife is primarily used for cutting, while a hammer is used mainly for breaking or pounding. Thus, the correct answer is option 'A' - Break.

## Matching Definitions Logical Reasoning Questions

In logical reasoning questions, matching definitions is determining the accurate definition or meaning of a given term or concept by choosing the response that most closely matches its definition or description.

**Question 1:** An Informal Gathering occurs when a group of people gets together in a casual, relaxed manner. Which situation below is the best example of an Informal Gathering?

- a) A debating club meets on the first Sunday morning of every month.
- b) After finding out about his salary raise, Jay and a few colleagues go out for a quick dinner after work.
- c) Meena sends out 10 invitations for a bachelorette party she is giving to her elder sister.
- d) Whenever she eats at a Chinese restaurant, Roop seems to run into Dibya.

**Answer:** Option B

**Question 2:** What is the definition of the term 'Hypotenuse'?

- a) The longest side of a right-angled triangle.
- b) A triangle with three equal sides.
- c) The angle opposite the longest side of a triangle.
- d) The sum of the interior angles of a triangle.

**Answer:** Option A

**Question 3:** A Tiebreaker is an additional contest carried out to establish a winner among tied contestants. Choose one situation from the options below that best represents a Tiebreaker.

- a) At halftime, the score is tied at 2-2 in a football match.
- b) Serena and Maria have each secured 1 set in the game.
- c) The umpire tosses a coin to decide which team will have to bat first.

d) RCB and KKR each finished at 140 all out.

**Answer:** Option D

**Question 4:** Match the term 'Photosynthesis' with its definition:

- a) The process of converting light energy into chemical energy.
- b) The breakdown of glucose to release energy in the absence of oxygen.
- c) The transport of water and nutrients through plant tissues.
- d) The production of gametes in organisms for sexual reproduction.

**Answer:** Option A

**Question 4:** Match the term 'Exponential growth' with its definition:

- a) The steady growth of a population over time.
- b) The growth pattern is characterized by a decreasing rate of growth.
- c) The rapid growth pattern where the population size increases exponentially.
- d) The decline in population size due to limited resources.

**Answer:** Option C

## Verbal Reasoning Questions with Answers

In logical reasoning, verbal reasoning refers to the capacity to comprehend, examine, and derive conclusions from passages, assertions, or arguments that are written or spoken while using critical analysis and logical inferences.

Check out the most frequently asked verbal reasoning questions in logical reasoning.

**Question 1:** Which of the following is the most likely conclusion to be drawn from the following statements?

Statement 1: All cats are mammals; Statement 2: Some mammals are furry.

Options:

- (a) All mammals are furry.
- (b) Some cats are furry.
- (c) Some furry animals are cats.
- (d) All furry animals are mammals.
- (e) None of the above.

**Answer:** The correct answer is (c). The two statements tell us that all cats are mammals and that some mammals are furry. This means that some furry animals must be cats.

**Question 2:** Which of the following is the most logical inference from the following statements?

Statement 1: If it is raining, then the ground is wet; Statement 2: The ground is wet.

Options:

- (a) It is raining.
- (b) It is not raining.
- (c) The ground is not wet.
- (d) Both (a) and (b) are possible.
- (e) None of the above.

**Answer:** The correct answer is (a). The two statements tell us that if it is raining, then the ground is wet. And since the ground is wet, we can infer that it is raining.

**Question 3:** Which of the following is the most logical sequence of events?

The sun rises; The birds start singing; People wake up; The flowers open.

Options:

- (a) 1, 2, 3, 4
- (b) 2, 1, 3, 4
- (c) 3, 1, 2, 4
- (d) 4, 1, 2, 3
- (e) None of the above.

**Answer:** The correct answer is (a). The sun rising is the first event in the sequence, followed by the birds starting to sing, people waking up, and finally the flowers opening.

**Question 4:** Which of the following is the most accurate analogy to 'A dog is to a puppy as a cat is to':

- (a) A kitten
- (b) A mouse
- (c) A lion
- (d) A cheetah
- (e) None of the above.

**Answer:** The correct answer is (a). A dog is an adult animal, while a puppy is a young animal of the same species. Similarly, a cat is an adult animal, while a kitten is a young animal of the same species.

**Question 5:** Which of the following is the most logical definition of the word mammal?

- (a) A warm-blooded animal that gives birth to live young.
- (b) A cold-blooded animal that lays eggs.
- (c) An animal that has fur or hair.
- (d) An animal that has four legs.
- (e) None of the above.

**Answer:** The correct answer is (a). A mammal is a warm-blooded animal that gives birth to live young. This definition excludes all other options.

## Logical Reasoning Questions and Answers on Logical Games

Puzzles or other problem-solving exercises that call for logical thinking, deductive reasoning, and strategic planning are referred to as logical games. In order to stimulate the mind and improve critical thinking abilities, they frequently include rules, patterns, and limits.

**Question 1:** Five friends: Alex, Ben, Chris, David, and Eric have different favorite colors. Use the given clues to determine each person's favorite color.

- Ben's favorite color is blue.
- David likes red, but his favorite color is not green.
- Eric's favorite color is yellow.
- Chris does not like purple or blue.
- Alex likes green.

Options:

- a) Alex - Blue, Ben - Green, Chris - Red, David - Yellow, Eric - Purple

- b) Alex - Green, Ben - Blue, Chris - Purple, David - Red, Eric - Yellow
- c) Alex - Red, Ben - Blue, Chris - Green, David - Yellow, Eric - Purple
- d) Alex - Green, Ben - Blue, Chris - Red, David - Purple, Eric - Yellow

**Answer:** By applying the given clues, the correct assignment of favorite colors to each person is as follows: Alex - Green, Ben - Blue, Chris - Purple, David - Red, Eric - Yellow. Thus, the correct answer is Option B.

**Question 2:** Arrange the given words in alphabetical order: [1] Apple; [2] Banana; [3] Orange; [4] Mango

- a) 4, 1, 2, 3
- b) 2, 3, 1, 4
- c) 1, 2, 4, 3
- d) 3, 4, 2, 1

**Answer:** Correct answer is Option C. One has to alphabetically arrange the words given: Apple, Banana, Mango, Orange.

**Question 3:** In a chess game, which piece has the most freedom of movement?

- a) Pawn
- b) Rook
- c) Bishop
- d) Knight

**Answer:** Among the given options, the knight has the most freedom of movement as it can move in an L-shape, jumping over other pieces. Thus, the correct answer is Option D.

**Question 4:** In a group of five friends: Alex, Ben, Chris, Dave, and Eric, who sat in a row, the following clues are given:

Ben is sitting next to Chris; Eric is sitting next to Dave; Alex is not sitting at either end.

Who is sitting in the middle?

- a) Alex
- b) Ben
- c) Chris
- d) Dave
- e) Eric

**Answer:** Based on the given clues, Ben must be sitting either at one end or the other. Alex is not sitting at either end, and Eric is sitting next to Dave. Therefore, Chris must be sitting in the middle. Thus, the correct answer is Option C.

**Question 5:** In a logic puzzle, determine the correct sequence based on given clues:

A comes after B but before C; D is not the first or last; C is before E.

- a) B, A, D, E, C
- b) A, B, D, C, E
- c) D, B, A, E, C
- d) B, A, D, C, E

**Answer:** Correct answer is Option D. Based on the given clues, the correct sequence is B, A, D, C, E.

## Logical Reasoning Questions on Statement and Assumption

In statement and assumption questions, the logical soundness of assumptions based on given statements is assessed. These inquiries evaluate the statements' implicit presumptions and call for determining whether or not they are true.

### Question 1:

Statement: If it is raining, the ground will be wet.

Assumption: The ground is wet.

- a) The assumption is definitely true.
- b) The assumption is definitely false.
- c) The assumption is uncertain.

**Answer:** The statement establishes a conditional relationship, but it does not provide direct information about the current weather or the state of the ground. Thus, the correct answer is Option C.

### Question 2:

Statement: All cats have tails.

Assumption: Fluffy is a cat.

- a) The assumption is definitely true.
- b) The assumption is definitely false.
- c) The assumption is uncertain.

**Answer:** The statement establishes a general rule about cats having tails, and the assumption aligns with this rule. Thus, the correct answer is Option C.

### Question 3:

Statement: John has passed the driving test.

Assumption: John is now a licensed driver.

- a) The assumption is definitely true.
- b) The assumption is definitely false.
- c) The assumption is uncertain.

**Answer:** Passing the driving test is typically a requirement for obtaining a driver's license. Thus, the correct answer is Option A.

### Question 4:

Statement: Every student in the class passed the exam.

Assumption: The exam was easy.

- a) The assumption is definitely true.
- b) The assumption is definitely false.
- c) The assumption is uncertain.

**Answer:** The statement provides information about the student's performance but does not directly indicate the difficulty level of the exam. Thus, the correct answer is Option C.

**Question 5:**

Statement: Eating healthy food promotes good health.

Assumption: People who eat healthy food are never sick.

- a) The assumption is definitely true.
- b) The assumption is definitely false.
- c) The assumption is uncertain.

**Answer:** While eating healthy food can contribute to good health, it does not guarantee complete immunity from sickness. Thus, the correct answer is Option B.

**Question 6:**

Statement: If it snows, the roads will be slippery.

Assumption: The roads are slippery.

- a) The assumption is definitely true.
- b) The assumption is definitely false.
- c) The assumption is uncertain.

**Answer:** The statement establishes a conditional relationship, but it does not provide information about the current weather or road conditions. Thus, the correct answer is Option C.

**Question 7:**

Statement: All birds can fly.

Assumption: Penguins cannot fly.

- a) The assumption is definitely true.
- b) The assumption is definitely false.
- c) The assumption is uncertain.

**Answer:** The statement establishes a general rule about birds flying, and the assumption aligns with the fact that penguins are flightless birds. Thus, the correct answer is Option A.

**Question 8:**

Statement: Regular exercise improves cardiovascular health.

Assumption: Everyone who exercises regularly has good cardiovascular health.

- a) The assumption is definitely true.
- b) The assumption is definitely false.
- c) The assumption is uncertain.

**Answer:** While regular exercise can have positive effects on cardiovascular health, individual factors, and genetic predispositions also play a role. Thus, the correct answer is Option B.

**Question 9:**

Statement: The store is closed on Sundays.

Assumption: The store is open on weekdays.

- a) The assumption is definitely true.
- b) The assumption is definitely false.
- c) The assumption is uncertain.

**Answer:** The statement indicates that the store is closed on Sundays, implying that it is open on other days, such as weekdays. Thus, the correct answer is Option A.

**Question 10:**

Statement: All mammals lay eggs.

Assumption: Humans lay eggs.

- a) The assumption is definitely true.
- b) The assumption is definitely false.
- c) The assumption is uncertain.

**Answer:** The statement establishes a general rule about mammals laying eggs, but humans are mammals that give birth to live young instead. Thus, the correct answer is Option B.

## Statement and Conclusion Logical Reasoning Questions

In a statement and conclusion question, the logical relationship between a given statement and a conclusion made from it is assessed. Based on the information presented, it is decided whether the conclusion flows logically.

**Question 1:**

Statement: All roses are flowers.

Conclusion: Roses are beautiful.

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** The statement establishes a classification, but it does not provide information about the beauty of roses. Thus, the correct answer is Option B.

**Question 2:**

Statement: Some cats are black.

Conclusion: All cats are black.

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** The statement specifies that only some cats are black, not all of them. Thus, the correct answer is Option B.

**Question 3:**

Statement: All students love learning.

Conclusion: Tom loves learning.

Options:

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** The statement establishes a generalization but does not provide specific information about Tom. Thus, the correct answer is Option B.

**Question 4:**

Statement: No birds can swim.

Conclusion: Penguins can swim.

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** The statement establishes that no birds can swim, and since penguins are birds that can swim, the conclusion follows. Thus, the correct answer is Option A.

**Question 5:**

Statement: Some apples are red.

Conclusion: All fruits are red.

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** The statement refers to some apples being red, but it does not provide information about the color of all fruits. Thus, the correct answer is Option B.

**Question 6:**

Statement: All politicians are liars.

Conclusion: John is a politician.

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** The statement establishes a categorization, and if John falls into the category of a politician, the conclusion follows. Thus, the correct answer is Option A.

**Question 7:**

Statement: Some dogs are friendly.

Conclusion: All animals are friendly.

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** The statement refers to only some dogs being friendly, not all animals. Thus, the correct answer is Option B.

**Question 8:**

Statement: No reptiles have fur.

Conclusion: Snakes have fur.

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** The statement establishes that reptiles do not have fur, and snakes are reptiles, so they cannot have fur. Thus, the correct answer is Option B.

**Question 9:**

Statement: All triangles have three sides.

Conclusion: All shapes have three sides.

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** The statement refers specifically to triangles, not all shapes. Thus, the correct answer is Option B.

**Question 10:**

Statement: Some athletes are strong.

Conclusion: All strong people are athletes.

a) The conclusion follows.

b) The conclusion does not follow.

**Answer:** The statement refers to only some athletes being strong, not all strong people being athletes. Thus, the correct answer is Option B.

## Cause and Effect Logical Reasoning Questions and Answers

Determine the connection between an event or action's cause and its result (the effect) in a cause-and-effect question. Then, determine whether the stated cause-and-effect relationship is logical and valid.

**Question 1:**

Cause: The company implemented a new training program for employees.

Effect: The productivity of employees increased significantly.

a) The cause-effect relationship is valid.

b) The cause-effect relationship is invalid.

**Answer:** The cause-effect relationship is valid. Implementing a new training program can enhance employees' skills and knowledge, leading to increased productivity. Thus, the correct answer is Option A.

**Question 2:**

Cause: Heavy rainfall occurred in the area.

Effect: The river flooded and caused extensive damage.

a) The cause-effect relationship is valid.

b) The cause-effect relationship is invalid.

**Answer:** The cause-effect relationship is valid. Heavy rainfall can lead to increased water levels in rivers, resulting in flooding and subsequent damage. Thus, the correct answer is Option A.

**Question 3:**

Cause: The student studied diligently for the exam.

Effect: The student scored well and obtained high marks.

a) The cause-effect relationship is valid.

b) The cause-effect relationship is invalid.

**Answer:** The cause-effect relationship is valid. Studying diligently can improve the student's understanding of the material and increase the likelihood of achieving high marks. Thus, the correct answer is Option A.

**Question 4:**

Cause: The car ran out of fuel.

Effect: The car came to a stop.

- a) The cause-effect relationship is valid.
- b) The cause-effect relationship is invalid.

**Answer:** The cause-effect relationship is valid. When a car runs out of fuel, it can no longer function and comes to a stop. Thus, the correct answer is Option A.

**Question 5:**

Cause: The athlete trained regularly and followed a strict diet.

Effect: The athlete improved their performance and won the competition.

- a) The cause-effect relationship is valid.
- b) The cause-effect relationship is invalid.

**Answer:** The cause-effect relationship is valid. Regular training and a disciplined diet can contribute to improved performance and increase the chances of winning a competition. Thus, the correct answer is Option A.

## Logical Deduction Reasoning Questions

Determine the connection between an event or action's cause and its result (the effect) in a cause-and-effect question. Then, determine whether the stated cause-and-effect relationship is logical and valid.

**Question 1:**

Statements: All birds have wings; Penguins are birds.

Conclusion: Penguins have wings.

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** While all birds have wings according to the first statement, the second statement does not provide information about whether penguins have wings or not. The conclusion does not follow. Hence, option B is correct.

**Question 2:**

Statements: All apples are fruits, Some fruits are red.

Conclusion: Some apples are red.

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** The first statement establishes the relationship between apples and fruits, and the second statement specifies that some fruits are red, indicating that there must be red apples among the fruits. The conclusion follows. Hence, option A is correct.

**Question 3:**

Statements: All cats have tails; Fluffy is a cat.

Conclusion: Fluffy has a tail.

- a) The conclusion follows.
- b) The conclusion does not follow.

**Answer:** The first statement establishes that all cats have tails, and the second statement confirms that Fluffy is a cat, so it can be concluded that Fluffy has a tail. The conclusion follows. Hence, option A is correct.

**Question 4:**

Statements: All dogs bark; Fido is a dog.

Conclusion: Fido barks.

a) The conclusion follows.

b) The conclusion does not follow.

**Answer:** The first statement establishes that all dogs bark and the second statement confirms that Fido is a dog, so it can be concluded that Fido barks. The conclusion follows. Hence, option A is correct.

**Question 5:**

Statements: All turtles are reptiles; Some reptiles have shells.

Conclusion: Some turtles have shells.

a) The conclusion follows.

b) The conclusion does not follow.

**Answer:** The first statement establishes the relationship between turtles and reptiles, and the second statement specifies that some reptiles have shells, indicating that there must be turtles with shells among the reptiles. The conclusion follows. Hence, option A is correct.

## Letter and Symbol Series Questions with Answers

Identifying the pattern or rule governing a series of letters or symbols and, using that pattern, figuring out the missing element or subsequent element in the series are two steps in the letter and symbol series questions of logical reasoning.

**Question 1:** Series: A, D, G, J, \_\_

a) M

b) N

c) O

d) P

**Answer:** Option A is the correct answer. The pattern is an increment of 3 letters: A, D, G, J. The next letter after J would be M, following the same pattern.

**Question 2:** Series: \*, #, @, \_\_, !

a) \$

b) %

c) &

d) ^

**Answer:** The pattern is a repeating alternate sequence of symbols on the keyboard- \*, #, @. The following symbol after @ would be \$, following the same pattern. Hence, option A is correct.

**Question 3:** Series: F, G, I, L, \_\_

- a) O
- b) P
- c) Q
- d) R

**Answer:** Option B is the correct answer. The pattern involves an increment of 1 letter, followed by an increment of 2 letters: F, G, I, L. The following letter after L would be Q, following the same pattern.

**Question 4:** Series: B, E, I, N, \_\_\_

- a) T
- b) U
- c) V
- d) W

**Answer:** The pattern involves an increment of 3 letters, followed by an increment of 4 letters: B, E, I, N. The next letter after N would be T, following the same pattern. Hence, option A is correct.

**Question 5:** Series: X, V, S, O, \_\_\_

- a) I
- b) J
- c) L
- d) M

**Answer:** The pattern involves a decrement of 2 letters, followed by a decrement of 3 letters: X, V, S, O. The following letter after O would be J, following the same pattern. Hence, option B is correct.

