

Question 1: Find the next number in the sequence: 5, 11, 19, 29, 41, ?

- a) 53
- b) 55
- c) 63
- d) 59

Question 2: Analogy — Tree : Forest :: Star : ?

- a) Galaxy
- b) Planet
- c) Comet
- d) Night

Question 3: Three boxes labelled APPLES, ORANGES, MIXED each contain fruit but all labels are wrong. You may pick one fruit from one box only. Which box should you pick from to correctly label all boxes?

- a) Pick from the box labelled MIXED
- b) Pick from the box labelled APPLES
- c) Pick from the box labelled ORANGES
- d) Pick from any box — it doesn't matter

Question 4: A decimal sequence shows 0.2, 0.22, 0.222, 0.2222... What is the 7th term?

- a) 0.2222222
- b) 0.222222
- c) 0.22222
- d) 0.22222222

Question 5: Which one does not belong with the others?

- a) Eagle
- b) Sparrow
- c) Penguin
- d) Dolphin

Question 6: A gardener can plant 150 saplings in 6 hours. At the same rate, how many saplings can he plant in 9 hours?

- a) 200
- b) 225
- c) 250
- d) 175

Question 7: If all roses are flowers and some flowers fade quickly, which statement must be true?

- a) Some roses fade quickly.
- b) All flowers are roses.
- c) No roses fade quickly.
- d) Some flowers might fade quickly

Question 8: Letters follow the rule: A, C, F, J, O, ? What is next letter?

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

Question 9: Analogy — Knife : Cut :: Key : ?

- a) Open
- b) Lock
- c) Hide
- d) Turn

Question 10: A 3×3 square has numbers 1–9 placed so each row sums to 15. If top row is 8, 1, 6 and middle left is 3, what is the centre number?

- a) 5
- b) 4
- c) 2
- d) 6

Question 11: Sequence — 2, 5, 10, 17, 26, ?

What is next?

- a) 49
- b) 65
- c) 57
- d) 65

Question 12: Which pair is incorrect?

- a) Square — 4 sides
- b) Triangle — 3 sides
- c) Pentagon — 6 sides
- d) Hexagon — 6 sides

Question 13: The sum of three consecutive integers is 48. What is the middle integer?

- a) 15
- b) 16
- c) 17
- d) 18

Question 14: A study claims eating apples reduces sick days by 25%. Which additional fact most weakens the claim?

- a) The study only tracked 8 people for 2 weeks
- b) The apples were red ones
- c) The study was published in a magazine
- d) People liked apples

Question 15: 1, 4, 9, 16, ?, 36 — the missing term is:

- a) 20
- b) 25
- c) 24
- d) 30

Question 16: Water : Liquid :: Ice : ?

- a) Solid
- b) Melting
- c) Cold
- d) Drip

Question 17: Five students A–E sit in a row. A is left of B and right of C. D sits at one end. E sits right of B. Who is at the other end?

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

Question 18: A juice recipe mixes fruit and water in 3:7 ratio. For 10 liters total, how many liters of fruit?

- a) 2 L
- b) 3 L
- c) 7 L
- d) 4 L

Question 19: The sequence alternates adding 2 and adding 5: 4,6,11,13,18,... What is next?

- a) 20
- b) 23
- c) 25
- d) 19

Question 20: Bee : Insect :: Frog : ?

- a) Mammal
- b) Amphibian
- c) Reptile
- d) Bird

Question 21: You have 10 coins 1 rupee each and want to make two piles with equal number of coins but different total values (some coins counterfeit of different weight but same look). Which general principle allows this (type of reasoning)?

- a) Algebraic partitioning
- b) Random guessing works best
- c) Impossible by any method
- d) You must have odd number of coins

Question 22: Identify next prime after 31 in the pattern 2,3,5,7,11,13,... 31, ?

- a) 37
- b) 33
- c) 35
- d) 39

Question 23: Finger : Hand :: Leaf : ?

- a) Tree
- b) Branch
- c) Forest
- d) Root

Question 24: A clock loses 5 minutes every hour. If it is set correctly at 12 noon, what will it show at 6:00 p.m. real time?

- a) 5:00
- b) 5:15
- c) 5:30
- d) 5:45

Question 25: Two taps A and B fill a tank in 10 and 15 hours respectively. If both open together, how long to fill tank?

- a) 6 hours
- b) $6\frac{2}{5}$ hours (6.4)
- c) 8 hours
- d) 9 hours

Question 26: A graph shows sales rising steadily while expenses also rise but slower.

Which conclusion is safest?

- a) Profit likely increasing but check margins and fixed costs before concluding
- b) Company will definitely become bankrupt
- c) Expenses irrelevant to profit
- d) Sales cause expenses to vanish

Question 27: Numeric pattern: 3, 6, 18, 108,?

- a) 540
- b) 648
- c) 324
- d) 216

Question: Brave : Courage :: Quiet : ?

- a) Silence
- b) Timidity
- c) Peace
- d) Calmness

Question 29: Four friends A, B, C, D are sitting around a round table facing the centre. A is opposite B, and C is to the right of A. Who is opposite C?

- a) A
- b) B
- c) D
- d) Cannot be determined

Question 30: A woman has some ₹2 coins and ₹5 coins. If she has 8 coins in total whose value is ₹28, how many ₹5 coins does she have?

- a) 2
- b) 3
- c) 4
- d) 5

Question 31: Binary sequence:

1,10,11,100,101,... what is next?

- a) 110
- b) 111
- c) 102
- d) 200

Question 32: Key : Lock :: Password : ?

- a) Account
- b) Access
- c) Door
- d) Secret

Question 33: A sequence of birthdays: Monday, Thursday, Sunday, Wednesday,... which day comes next if pattern adds 3 days then 3 days?

Determine next day after Wednesday.

- a) Saturday
- b) Monday
- c) Friday
- d) Tuesday

Question 34: A 30% sugar solution is mixed with a 10% solution to get 20% final. If 10 liters of 20% is needed, how much 30% solution used?

- a) 3 L
- b) 4 L
- c) 5 L
- d) 6 L

Question 35: A survey of 100 students finds 80 like reading. The survey sampled only library members. Why might this overestimate the school's reading preference?

- a) Sample bias
- b) 80 is always accurate
- c) Library has no influence on reading habits
- d) 100 is too small for any conclusion

Question 36 Find the missing number in the sequence: 2, 3, 7, 13, 21, ?

- a) 31
- b) 33
- c) 35
- d) 37

Question 37: Autumn : Season :: Eucalyptus : ?

- a) Animal
- b) Tree
- c) Mineral
- d) City

Question 38 Five houses are painted different colours: Red, Blue, Green, Yellow, and White. The Red house is left of the Blue house. The Green house is right of the Blue house. The Yellow house is left of the Red house. If the White house is not at either end, which house is in the middle?

- a) Red
- b) Blue
- c) Green
- d) White

Question 39: A rectangle has length 4 cm more than width. If perimeter is 48 cm, what is width?

- a) 10 cm
- b) 11 cm
- c) 8 cm
- d) 6 cm

Question 40: A table shows students' test scores improved after a new tutoring program. Which extra evidence strengthens causal claim?

- a) A control group without tutoring that did not improve while similar otherwise
- b) Students report they liked tutoring
- c) Tutoring costs money
- d) Number of tutors increased

Question 41: Which term is 21 in triangular numbers sequence 1,3,6,10,15,21,... What is its position?

- a) 5th
- b) 6th
- c) 7th
- d) 8th

Question 42: Puppy : Dog :: Kitten : ?

- a) Cat
- b) Rabbit
- c) Mouse
- d) Bird

Question 43: A farmer must take wolf, goat, and cabbage across river; farmer can take only one item at a time and cannot leave wolf with goat or goat with cabbage. Which item should farmer take first?

- a) Goat
- b) Wolf
- c) Cabbage
- d) Any

Question 44: A cyclist covers 30 km in 1.5 hours. If he increases his speed by 2 km/h, how long will he take to cover the same distance?

- a) 1.25 hours
- b) 1.36 hours
- c) 1.5 hours
- d) 1.4 hours

Question 45: After school adopted lucky pencil, average grades rose. Which reasoning error is this likely?

- a) Post hoc ergo propter hoc — assuming causation from sequence
- b) Correct causal inference
- c) Correlation proves causation always
- d) No error

Question 46: Fill next: Z, X, V, T, R, ?

- a) P
- b) Q
- c) S
- d) N

Question 47: $3 : 27 :: 4 : ?$ (where second is first cubed)

- a) 64
- b) 81
- c) 12
- d) 16

Question 48: A shape uses 12 matchsticks to form 3 squares in a row sharing sides. How many additional sticks needed to add one more square in the row?

- a) 3
- b) 4
- c) 2
- d) 5

Question 49: A price after 20% discount is ₹400. What was original price?

- a) ₹480
- b) ₹500
- c) ₹520
- d) ₹450

Question 50: A viral headline claims a miracle cure; the best first check is:

- a) Read the original scientific study and check sample size and methods
- b) Share immediately on social media
- c) Assume it's true because sensational
- d) Trust the headline only

Question 51: 1, 2, 6, 24, 120, ? next term is 720. Which operation produces sequence?

- a) Multiply by consecutive integers
- b) Add consecutive integers
- c) Multiply by 2 each time
- d) Square each time

Question 52: Hexagon : 6 sides :: Octagon : ?

- a) 6
- b) 8
- c) 10
- d) 4

Question 53: If $x + y = 10$ and $x - y = 4$, what is x ?

- a) 3
- b) 7
- c) 5
- d) 2

Question 54: Four friends share ₹600 in ratio 1:2:3:4. What does the second friend get?

- a) ₹100
- b) ₹200
- c) ₹120
- d) ₹240

Question 55: An ad says “Doctors recommend Brand X” — what is a critical question to ask?

- a) Which doctors, and what evidence supports recommendation?
- b) Is the product colourful?
- c) What font used in ad?
- d) Where is ad placed?

Question 56: When stuck on a hard problem, the best first step is:

- a) Try to understand and restate the problem, identify known/unknowns and consider simple examples
- b) Give up immediately
- c) Memorize solutions from internet
- d) Randomly guess

Question 57: 0.5, 0.25, 0.125, 0.0625, ? next

term is:

- a) 0.03125
- b) 0.025
- c) 0.04
- d) 0.06

Question 58: Composer : Music :: Author : ?

- a) Book
- b) Story
- c) Writing
- d) Novel

Question 59: A box contains 3 red balls, 2 blue balls, and 1 green ball. If one ball is picked at random, what is the probability it is not red?

- a) $\frac{1}{6}$
- b) $\frac{1}{3}$
- c) $\frac{1}{2}$
- d) $\frac{3}{6}$

Question 60: A student has scores 72, 85, and 91 for three tests. What score on 4th test is needed to have an average of 85?

- a) 86
- b) 87
- c) 81
- d) 92

