

XAT Verbal Ability and Logical Reasoning (VALR)

Verbal Ability

1. Choose the word that is most similar in meaning to "abundant":
- A) Scarce
 - B) Plentiful
 - C) Limited
 - D) Rare

Solution: The word "abundant" means plentiful or more than enough.

- **Answer:** B) Plentiful
2. Choose the word that is the antonym of "beneficial":
- A) Useful
 - B) Advantageous
 - C) Harmful
 - D) Helpful

Solution: The antonym of "beneficial" is "harmful".

- **Answer:** C) Harmful
3. Complete the sentence with the most appropriate word: "His attempt to _____ the team's morale was unsuccessful."
- A) Boost
 - B) Lower
 - C) Diminish
 - D) Ignore

Solution: To improve morale, the appropriate word is "boost".

- **Answer:** A) Boost
4. Find the synonym for "contemplate":
- A) Ignore
 - B) Ponder
 - C) Disregard
 - D) Reject

Solution: To "contemplate" means to ponder or think deeply about something.

- **Answer:** B) Ponder
5. Choose the word that best completes the sentence: "The professor's lectures are often so _____ that students have trouble staying awake."
- A) Exciting
 - B) Engaging
 - C) Tedious
 - D) Intriguing

Solution: The word "tedious" means too long, slow, or dull; tiresome or monotonous.

- **Answer:** C) Tedious

Logical Reasoning

6. If all roses are flowers and some flowers fade quickly, which of the following must be true?
- A) All roses fade quickly.
 - B) Some roses fade quickly.
 - C) No roses fade quickly.
 - D) All flowers fade quickly.

Solution: The statement "some flowers fade quickly" does not specify which type of flowers. Therefore, only "some roses fade quickly" can be inferred.

- **Answer:** B) Some roses fade quickly.
7. A family consists of a father, a mother, and three children. If the father is a doctor and the mother is an engineer, what is the profession of the children?
- A) The profession of the children cannot be determined from the given information.
 - B) All children are doctors.

- C) All children are engineers.
- D) The children have no professions.

Solution: The professions of the children cannot be determined from the given information.

- **Answer:** A) The profession of the children cannot be determined from the given information.
8. In a certain code, "FLOOR" is written as "EKNPP". How is "GRAIN" coded in that language?
- A) FSBJQ
 - B) FSBOJ
 - C) HSBJO
 - D) HSBJP

Solution: Each letter in "FLOOR" is shifted by -1 (F → E, L → K, etc.). Applying the same shift to "GRAIN", we get "FSBHQ".

- **Answer:** A) FSBJQ
9. If "RISK" is coded as "SJTL", how is "CODE" coded?
- A) DPEF
 - B) DQEF
 - C) CPDE
 - D) DPFE

Solution: Each letter in "RISK" is shifted by +1. Therefore, "CODE" coded will be "DPFE".

- **Answer:** D) DPFE
10. In a group of 50 people, 40 people read newspaper A, 30 read newspaper B, and 10 read both newspapers. How many people read only newspaper A?
- A) 10
 - B) 20
 - C) 30
 - D) 40

Solution: People reading only newspaper A = Total who read A - People reading both = 40 - 10 = 30.

- **Answer:** B) 30

Critical Reasoning

11. A company claims that its new smartphone has a battery life of 24 hours. However, users have reported a battery life of only 18 hours on average. What can be concluded?

- A) The company's claim is accurate.
- B) The company's claim is not supported by user reports.
- C) The smartphone has a battery life of 24 hours for some users.
- D) The company should withdraw the smartphone.

Solution: The user reports contradict the company's claim, indicating the claim is not supported by evidence.

- **Answer:** B) The company's claim is not supported by user reports.

12. If a new policy is introduced in an organization to reduce absenteeism by increasing employee incentives, what is the expected outcome?

- A) Absenteeism will likely increase.
- B) Employee satisfaction will decrease.
- C) Absenteeism will likely decrease.
- D) Incentives will have no effect on absenteeism.

Solution: Increasing incentives is expected to motivate employees, thus likely decreasing absenteeism.

- **Answer:** C) Absenteeism will likely decrease.

13. **"All managers are leaders, but not all leaders are managers." Which of the following statements is necessarily true?**

- A) Some leaders are not managers.
- B) All leaders are managers.
- C) No leaders are managers.
- D) Some managers are not leaders.

Solution: The statement indicates that while all managers are leaders, there are leaders who are not managers.

- **Answer:** A) Some leaders are not managers.

14. **A company observed that employees with flexible working hours had higher productivity compared to those with fixed hours. What can be inferred from this observation?**

- A) Fixed working hours cause lower productivity.
- B) Flexible working hours lead to higher productivity.
- C) All employees should have flexible hours.
- D) Productivity is not affected by working hours.

Solution: The observation suggests a correlation between flexible hours and higher productivity.

- **Answer:** B) Flexible working hours lead to higher productivity.

15. **If an organization is planning to implement a new training program and expects an increase in employee performance, what should be measured to evaluate the program's effectiveness?**

- A) The cost of the training program.
- B) The number of employees attending the training.
- C) The change in employee performance after training.
- D) The duration of the training program.

Solution: To evaluate the effectiveness, the change in employee performance after training should be measured.

- **Answer:** C) The change in employee performance after training.

Data Interpretation

16. **In a survey, 60% of the participants were male, 30% were female, and 10% did not specify their gender. If there were 500 participants, how many participants did not specify their gender?**

- A) 50
- B) 100
- C) 150
- D) 200

Solution: Participants who did not specify their gender = 10% of 500 = $0.10 \times 500 = 50$.

- **Answer:** A) 50

17. **A company's sales figures for the last four quarters are \$20,000, \$25,000, \$30,000, and \$35,000. What is the average sales per quarter?**

- A) \$25,000
- B) \$27,500
- C) \$30,000
- D) \$35,000

Solution: Average sales per quarter
= $(20,000 + 25,000 + 30,000 + 35,000) / 4 = 110,000 / 4 = 27,500$.

- **Answer:** B) \$27,500

18. A group of students scored the following marks in an exam: 45, 55, 65, 55, 75. What is the median score?

- A) 55
- B) 60
- C) 65
- D) 70

Solution: Arranging the scores: 45, 55, 55, 65, 75. The median is the middle value, which is 55.

- **Answer:** A) 55

19. The average of five numbers is 40. If one of the numbers is 35, what is the average of the remaining four numbers?

- A) 38
- B) 39
- C) 40
- D) 41

Solution: Total sum of five numbers = $40 \times 5 = 200$. Sum of the remaining four numbers = $200 - 35 = 165$. Average of the remaining four numbers = $165 / 4 = 41.25$.

- **Answer:** D) 41

20. If the price of a product increases by 20% and then decreases by 10%, what is the net percentage change in the price?

- A) 10% increase
- B) 8% increase
- C) 10% decrease
- D) 8% decrease

Solution: Let the original price be 100. After a 20% increase, the price is 120. After a 10% decrease, the new price is $120 \times 0.90 = 108$. Net percentage change = $(108 - 100) / 100 \times 100\% = 8\%$ increase.

- **Answer:** B) 8% increase

Logical Reasoning (Complex)

21. If two trains start at the same time from two stations 300 km apart and travel towards each other at speeds of 50 km/h and 75 km/h respectively, how long will they take to meet?

- A) 2 hours
- B) 2.5 hours
- C) 3 hours
- D) 3.5 hours

Solution: Relative speed = $50 + 75 = 125$ km/h. Time to meet = Distance / Relative speed = $300 / 125 = 2.4$ hours.

- **Answer:** B) 2.5 hours

22. In a certain code language, "MANGO" is coded as "NBNHP". How is "APPLE" coded in that language?

- A) BQQMF
- B) BQQNG
- C) BQQNF
- D) CQQNF

Solution: Each letter in "MANGO" is shifted by +1. Applying the same shift to "APPLE", we get "BQQMF".

- **Answer:** A) BQQMF

23. If all roses are flowers and some flowers are not red, which of the following conclusions can be drawn?

- A) Some roses are not red.
- B) All roses are red.
- C) Some flowers are red.
- D) No roses are red.

Solution: Since some flowers are not red and roses are a subset of flowers, some roses could potentially be red, but the

information is insufficient to conclude that no roses are red.

- **Answer:** A) Some roses are not red.

24. **A clock shows the time as 3:15. What is the angle between the hour and the minute hands?**

- A) 30 degrees
- B) 37.5 degrees
- C) 45 degrees
- D) 90 degrees

Solution: The hour hand moves 30 degrees per hour and 0.5 degrees per minute. At 3:15, the hour hand is 3 hours and 15 minutes past 12:00, so it has moved $3 \times 30 + 15 \times 0.5 = 90 + 7.5 = 97.5$ degrees. The minute hand is at 15 minutes = 90 degrees. Angle between them = $|97.5 - 90| = 7.5$ degrees.

- **Answer:** B) 37.5 degrees

25. **If "R" is to "T" as "J" is to "L", then "S" is to:**

- A) U
- B) Q
- C) R
- D) P

Solution: The letters are shifted by +2 positions. Thus, S shifted by +2 is U.

- **Answer:** A) U

26. **A woman is looking at a picture of someone. Her friend asks, "Who is it you are looking at?" She replies, "Brothers and sisters, I have none. The father of that person in the picture is my father's son." Who is the person in the picture?**

- A) Her brother
- B) Her father
- C) Her son
- D) Her cousin

Solution: The father of the person in the picture is "my father's son", which is the woman's son.

- **Answer:** C) Her son

27. **In a certain language, "DEAL" is coded as "EFBM". How is "FINE" coded in that language?**

- A) GJOF
- B) GJPG
- C) GJMF
- D) HJPG

Solution: Each letter in "DEAL" is shifted by +1. Applying the same shift to "FINE", we get "GJOF".

- **Answer:** A) GJOF

28. **If a person is 25 years old now, how many years ago was he one-fourth of his age?**

- A) 15 years ago
- B) 5 years ago
- C) 10 years ago
- D) 20 years ago

Solution: Let x be the number of years ago. At that time, the person was $(25 - x)$ years old. According to the problem, $(25 - x) = (1/4) \times 25$, so $25 - x = 6.25$, hence $x = 25 - 6.25 = 18.75$. Approximately 19 years ago.

- **Answer:** A) 15 years ago

29. **A man is 4 times as old as his son. In 10 years, he will be 3 times as old as his son. What is the current age of the son?**

- A) 10 years
- B) 15 years
- C) 20 years
- D) 25 years

Solution: Let the son's current age be x . The man's current age is $4x$. In 10 years, the son will be $x + 10$ and the man will be $4x + 10$. According to the problem, $4x + 10$

$= 3(x + 10)$, solving for x gives $x = 20$.

- **Answer:** C) 20 years

30. **If the sequence of numbers is 3, 6, 12, 24, what will be the next number in the sequence?**

- A) 36
- B) 48
- C) 60
- D) 72

Solution: Each number in the sequence is multiplied by 2 to get the next number. Therefore, the next number after 24 will be $24 \times 2 = 48$.

- **Answer:** B) 48