

Classification

Directions (1- 5): Some groups of letters are given, all of which, except one, share a common similarity while one is different. Choose the odd one out.

1.

a) Flower: Petal

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b) Triangle : Angle

c) Cover : Page

d) Table : Leg

Answer (c)

Explanation: In all other pairs, second is a part of the first.

2.

a) Ostrich

b) Penguin

c) Emu

d) Owl

Answer (d)

Explanation: Out of the four except owl, all is flightless birds.

3.

a) Triangle

b) Trifle

- c) Triathlon
- d) Trilingual

Answer (b)

Explanation: Except (b), tri indicates 'three'.

4.

- a) Volcanoes
- b) Tsunamis
- c) Tornadoes
- d) Explosion

Answer (d)

Explanation: All except (d), are natural calamities.

5.

- a) E/7
- b) 1/13
- c) N/17
- d) X/26

Answer (c)

Explanation: In all other options, denominator is the numeric position of the alphabet plus 2.

Analogy

Directions (6– 10): In each of the following questions, there is a certain relationship between two given words on one side of (: :) and one word is given on another side (: :) while another word is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear. Choose the correct alternative.

6. 12: 20 :: 30: ___?

- a) 40
- b) 42
- c) 50
- d) 44

Answer (b)

Explanation: 12 is $3^2 + 3$

20 is $4^2 + 4$

30 is $5^2 + 5$

And $6^2 + 6 = 42$

7. United states: Bald eagle :: India : ?

- a) Cheetah
- b) Lion
- c) Sparrow
- d) Peacock

Answer (d)

Explanation: As Bald eagle is the national bird of US; similarly Peacock is the national animal of India.

8. 10.1: 1.01 :: 0.1: ___? ___

- a) 1
- b) 0.10
- c) 0.01
- d) 0.001

Answer (c)

Explanation: 10.1 is divided by 10 to get 1.01. Divide 0.1 by 10 to get 0.01

9. Kidney: Nephrology :: Brain: ___? ___

- a) Cardiology
- b) Physiology
- c) Anatomy
- d) Neurology

Answer (d)

Explanation: Study of Kidney is Nephrology and the study of brain is called Neurology.

10. F: 37 :: I: ___?

- a) 52
- b) 27
- c) 75
- d) 82

Answer (d)

Explanation: F is the sixth letter in the series and square of 6 ($6*6$) + 1 is 37. I is the ninth letter and the square of 9 ($9*9$) + 1 is 82.

11. In a certain code '415' means 'milk is hot'; '18' means 'hot soup'; and '895' means 'soup is brown'. What number will indicate the word 'brown'?

- a) 9
- b) 8
- c) 5
- d) 4

Answer (a)

Explanation: The code for 'hot' is 1. So, the code of 'soup' is 8. Now, the code for 'is' is 5. Hence, we can say that the code for 'brown' is 9.

12. If CEJQ is coded as XVQJ, then BDIP will be coded as:

- a) WURQ
- b) YWRK
- c) WUPI
- d) YWPI

Answer (b)

Explanation: The first 13 letters of the alphabet are coded by the 13 letters of the alphabet in reverse, i.e.

= A B C D E F G H I J K L M (first 13 letters)

= Z Y X W V U T S R Q P O N (13 letters in reverse)

It is obvious from the above coding scheme that:

B = Y, D = W, I = R and K = P or P = K

Therefore, B D I P will be coded as Y W R K.

13. If LODES is coded as 46321, how will you code the word DOES?

- a) 1234
- b) 4321
- c) 3621
- d) 3261

Answer (d)

Explanation: Here, you will observe that all the letters of DOES are included in the letters of LODES, for which you have the code D = 3, O = 6, E = 2, S = 1. Therefore DOES = 3621. So, the answer is (d).

Syllogism

Directions (14 – 16): In each question below are given three statements followed by three or four conclusions numbered I to IV. You have to take the two given statements to be true even if they seem to be at variance with commonly known facts. Read both the statements and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

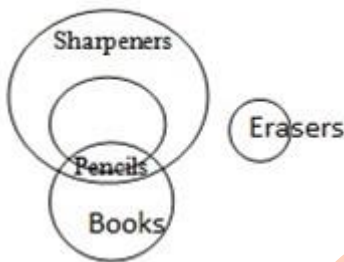
14. Statements: All pencils are sharpeners. No sharpener is eraser. Some books are pencils.

Conclusions:

1. Some erasers are pencils.
2. Some erasers are books.
3. Some sharpeners are books.
4. No eraser is books.
 - a) Only either II or III, and IV follow
 - b) Only either II or IV, and III follow
 - c) Only either II or IV, and I follow
 - d) Only either II or IV follows.

Answer (b)

Explanation:



Either II or IV will follow and II will definitely be true.

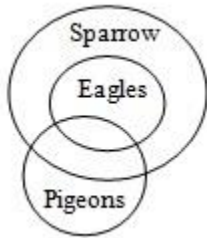
15. Statements: Some pigeons are eagles. All eagles are sparrows. Some sparrows are not pigeons.

Conclusions:

1. Some sparrows are pigeons.
2. All pigeons are sparrows.
3. All eagles are pigeons.
 - a) Only I follows
 - b) Only II follows
 - c) Only III follows
 - d) Both I and III follows

Answer (a)

Explanation:



Only I is definitely true.

16. Statements: Some computers are laptops. Some laptops are mobiles. Some mobiles are calculators. (Banking)

Conclusions:

1. Some computers are calculators.
 2. Some calculators are laptops.
 3. Some mobiles are computers.
- a) Only I follows

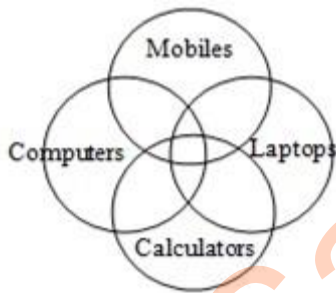
b) Only II follows

c) Only III follows

d) None follows

Answer (d)

Explanation:



None of the statement is necessarily true.

Direction Sense

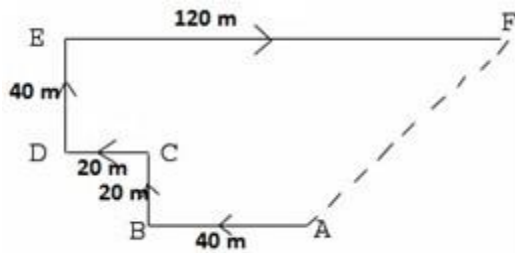
17. Ram facing south. He turns right and walks 40 metre. Then he turns right again and walks 20 metre. Then he turns left and walks 20 metre and then turning right walk 40 metre. Then he turns right again and walks 120 metre. In which direction he is from the starting point?

a) North-East

b) North-West

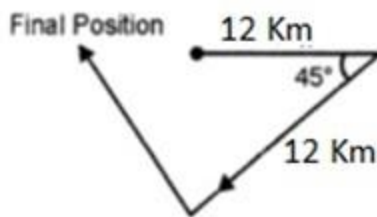
c) North

d) West

Answer (a)**Explanation:**

18. Rajat goes towards east kilometers, and then he takes a turn to South west and goes 12 kilometres. He again takes a turn towards North West and goes 12kilometres. With respect to the point from where he started, where is he now?

- a) At the starting point.
- b) In the west
- c) In the east
- d) In the North West.

Answer (b)**Explanation:**

∴ Final Direction = West.

Blood Relations

19. Ravi told Ram, "yesterday I defeated the only brother of the daughter of my grandmother". Whom did Ravi defeat?

- a) Father
- b) Brother
- c) Son
- d) Father -in -law

Answer (a)

Explanation: Daughter of grandmother –aunt, aunt's only daughter— father.

Directions (20 - 21): Read the following information carefully and answer the questions given below it:

E x K, means E is brother of K.

E – K, means E is mother of K.

E % K, means E is father of k.

20. Which of the following represents that 'N' is the son of 'P'?

- a) $N \times R \% P$
- b) $N \% R \times P$
- c) $P \% N \times R$
- d) $N - R \% T$

Answer (c)

Explanation: $P \% N$, means P is father of N and $N \times R$, means N is brother of R, thus N is the son of P.

21. How is 'B' related to 'P' in the relation $P \times Q \% R - B$?

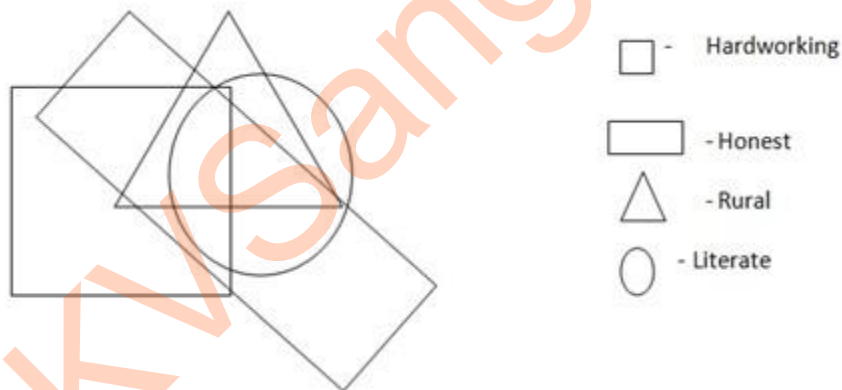
- a) Maternal uncle
- b) Nephew
- c) Grandson
- d) none of these

Answer (d)

Explanation: In $P \times Q \% R - B$, $P \times Q$ means, P is brother of Q and $Q \% R$ means, Q is father of R, $R - B = R$ is mother of B. Thus, P is maternal - grandfather of B.

Logical Venn Diagram

22. Which of the options is true based on the Venn diagram below?



- a) Some honest people are also hardworking and are literate
- b) Illiterates are either honest or hard working
- c) All literates are rural
- d) No person is rural, literate, honest and hardworking

Answer (a)

Arrangements: Linear

Directions (23 – 24): Read the following information carefully and answer the questions given below.

Six boys A, B, C, D, E and F are marching in a line, their positions arranged according to their heights, the tallest at the back. F is between A and B. E is shorter than D but taller than C who is taller than A. E and F have two boys between them. A is not the shortest.

23. Where is E?

- a) Between A and B
- b) Between A and C
- c) Between C and D
- d) In front of C

Answer (c)

24. How many boys are between E and F?

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

Answer (b)

Explanation (23-24): Shortest...B F A C E D..Tallest

Directions (25 - 26): Answer the questions on basis of the information given below:

Rohan, Ramesh, Geeta, Ankit and Govind are sitting on a straight table. Geeta is sitting next to Rohan, Ankit is sitting next to Ramesh is not sitting with Govind who is on the left end of the table. Ankit is second from the right. Geeta is right of Rohan and Govind. Geeta and Ankit are sitting together.

25. Who is sitting extreme right?

- a) Govind
- b) Ramesh
- c) Ankit
- d) Geeta

Answer (d)

26. In which position Geeta is sitting?

- a) Between Rohan and Ramesh
- b) Between Rohan and Ankit

c) Between Govind and Ramesh

d) Between Ankit and Govind

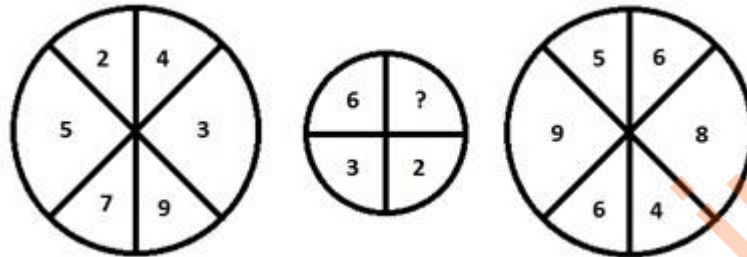
Answer (a)

Explanation (25-26): By the information given we can have the following arrangement.

Govind Rohan Geeta Ankit Ramesh

Non Verbal Reasoning - Series

27. Which number replaces the question mark?



a) 4

b) 3

c) 5

d) 7

Answer: b)

Explanation: Split the left and right hand circles in half, vertically.
Now, the number appearing in middle circle follows the below series:

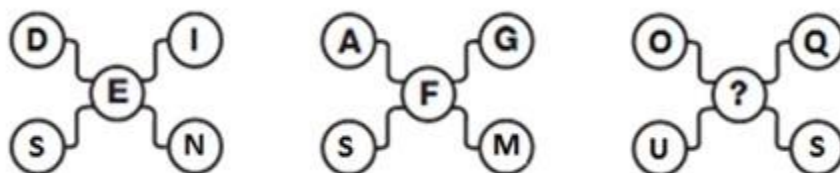
$(7 + 5) \div 2 = 6$ (top left hand segment of the middle circle)

$(9 + 3) \div 4 = 3$ (**top right hand segment of the middle circle**)

$(6 + 9) \div 5 = 3$ (bottom left hand segment of the middle circle)

$(4 + 8) \div 6 = 2$ (bottom right hand segment of the middle circle)

28. Which letter replaces the question mark?



- a) B
- b) C
- c) H
- d) J

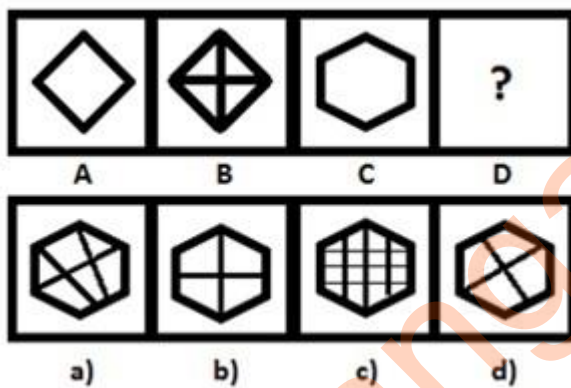
Answer: a)

Explanation: In each diagram, letters are written in sequence, starting in the top left circle and moving clockwise around the other 3 outer circles, in steps given by the numerical value of the central letter each time.

Non Verbal Reasoning - Analogy

Directions (29 - 30): Each of the following questions consists of two sets of figures. Figures A, B, C and D constitute the Problem Set while figures a), b), c) and d) constitute the Answer Set. There is a definite relationship between figures A and B. Establish a similar relationship between figures C and D by selecting a suitable figure from the Answer Set that would replace the question mark (?) in figure (D).

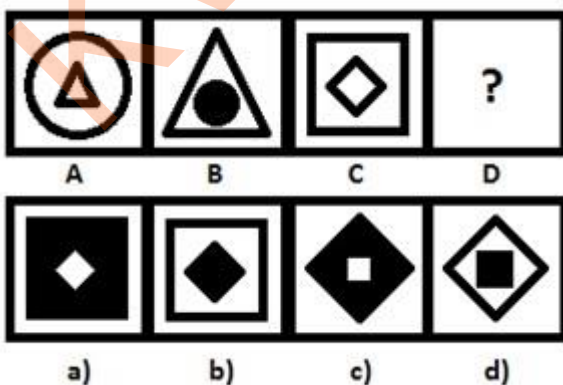
29.



Answer: c)

Explanation: The second figure is divided into as many parts as the number of sides of the first figure. Similarly, Fourth figure will be divided by six lines as the third figure is a hexagon.

30.



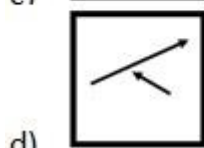
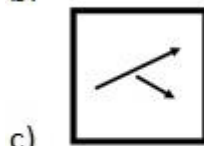
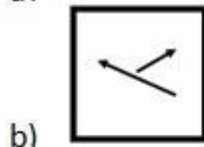
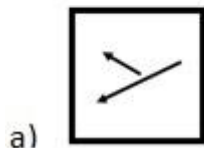
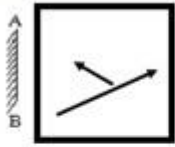
Answer: d)

Explanation: The inner element enlarges to become the outer element while the outer element reduces in size, turns black and becomes the inner element.

Non Verbal Reasoning - Mirror Image

Directions (31-32): In each of the following questions, choose the correct mirror image from the alternatives (a), (b), (c) and (d), when mirror is placed on the line AB.

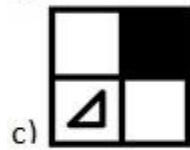
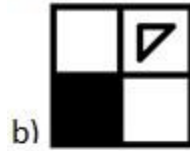
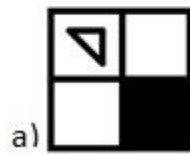
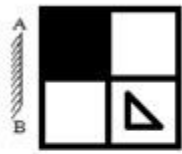
31.



Answer: b)

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32.



Answer: c)

Non Verbal Reasoning - Paper Cutting and Folding

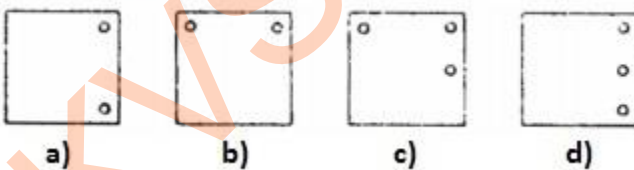
Directions (33-34) - Choose a figure which would most closely resemble the unfolded form of the last question figure.

33.

Question Figures



Answer Figures



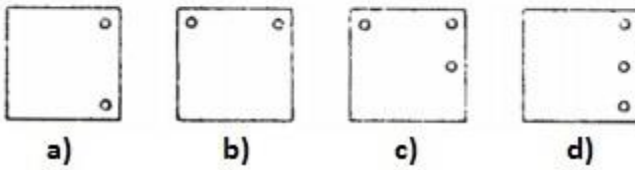
Answer: b)

34.

Question Figures



Answer Figures



Answer: d)

Non Verbal Reasoning - Completion of Figure Pattern

Directions (35-36): In each of the following questions, a part of question figure is missing. Find out from the given answer figures (a), (b), (c) and (d), that can replace the '?' to complete the question figure.

35.



- a)
- b)
- c)
- d)

Answer: b)

Explanation:

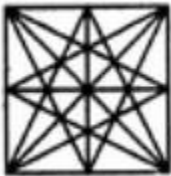


36.



Answer: c)

Explanation:



Alphanumeric Series

Directions (37 - 40): Study the following arrangement carefully and answer the question given below.

P S U 3 G D 6 Q F 5 = A 1 H B 7 I 9 T M 8 # E J 2 * R 4 W

37. Which of the following is the fifth to the right of the fifteenth from the right end?

a) 8

b) T

c) #

d) M

Answer: d)

Explanation: The fifteenth element from the right end of the arrangement is B, and the fifth element to the right of B is M.

38. If order of the last eleven elements is reversed, which of the following will be seventh to the right of ninth from the left end?

a) B

b) 7

c) I

d) H

Answer: b)

Explanation: P S U 3 G D 6 Q F 5 = A 1 H B 7 I 2 W 4 R * 2 J E # 7 M T
The ninth element from the left end of this arrangement is F, and the seventh element to the right of F is 7.

39. Four of the following five are alike in a certain way on the basis of the above arrangement and hence form a group. Which one does not belong to that group?

a) P U G

b) = 1 B

c) Q = H

d) I T 8

Answer: c)

Explanation: In all other groups, the first and second elements each move 2 steps forward to give the second and third elements respectively.

40. If the position of 6 and 2 are interchanged and similarly the position of U and R are interchanged then how many symbols will be there each of which is either preceded or followed by a vowel?

a) 1

b) 2

c) 3

d) 4

Answer: c)

Explanation: Such symbols in the new arrangement may be indicated as follow:

PSR3GD2QF5□A1HB7I9TM8#EJ6*U4W

Number Series

Directions (41-45): Choose the next number in the series from the options below:

41. 26, 24, 20, 18, 14, ?

a) 8

b) 10

c) 12

d) 11

Answer: c)

Explanation: Sequence of -2, -4 is being followed in the question.

42. 0, 1, 1, 2, 4, 8, ?

a) 12

b) 15

c) 14

d) 16

Answer: d)

Explanation: Every term is the sum of all its previous numbers. So the last number should be 16.

43. 37, 10, 79, 16, 48, ?

a) 22

b) 20

c) 12

d) 18

Answer: c)

Explanation: Every second number is the sum of the digits of its previous number.

44. -4, 3, -11, 10, ?

a) -27

b) -18

c) 18

d) -35

Answer: b)

Explanation: The first term is added with 7 to get 3. The second term is subtracted with 14 to get -11. -11 is added with 21 to get 10. So 10 should be subtracted with the next factor of 7 that is $10 - 28 = -18$.

45. 1, 0.05, 0.0025, ?

a) 0.000125

b) 0.0000125

c) 0.00125

d) 0.00000125

Answer: a)

Explanation: Starting from 1 each number is being divided by 20.

Letter Series

Directions (46-47): In each of the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

46. _ baa _ aa _ aab _

a) baba

b) bbab

c) aabb

d) abba

Answer: d)

Explanation: The series is aba/aba/aba/aba. Thus, the pattern 'aba' is repeated.

47. _ cd _ ac _ b _ _ dbacd _

a) abdbca

b) abdacb

c) abdbac

d) acdbad

Answer: b)

Explanation: The series acdb/ acdb/ acdb/ acdb. Thus, the pattern 'acdb' is repeated.

Word Formation

Directions (48 – 50): Find the word which cannot be made from letters of the given word.

48. IMPECCABLE

a) LIME

b) BEAM

c) PEBBLE

d) CABLE

Answer: c)

49. PREDILECTION

a) DICTION

b) DIRECTION

c) ELECTION

d) PREDICTIONS

Answer: d)

50. APPREHENSION

a) HOPE

b) HAPPY

c) PENSION

d) NOISE

Answer: b)

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