

General Intelligence and Reasoning Q & A With Explanations

1) Direction: A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'A' can be represented by 03, 10 etc. and 'FY' can be represented by 58, 65 etc. Similarly, you have to identify the set for the word 'BEAK'.

Matrix – 1

		1	2	3	4
	C	B	O	A	T
1	A	C	T	B	O
2	B	O	A	T	C
3	T	C	B	O	A

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4	O	A	T	C	B
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Matrix – 2

	5	6	7	8	9
5	R	E	K	D	L
6	D	L	R	E	K
7	E	K	D	L	R
8	L	R	E	K	D
9	K	D	L	R	E

a) 44 75 22 88

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b) 20 10 87 57

c) 44 88 10 75

d) 32 76 75 22

Ans. (a.)

Explanation: Let us find the code for the given work-

B= 01, 13, 20, 32, 44;

E= 56, 68, 75, 87, 99;

A= 03, 10, 22, 34, 41;

K= 57, 69, 76, 88, 95;

From the above deductions, we can find that option (a.) is the most appropriate answer.

Directions: In Question nos. 2 to 7, select the related word/letters/number from the given alternatives.

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2) Insects : Entomology : : Snakes : ?

a) Agrology

b) Mycology

c) Cetology

d) Ophiology

Ans. (d.)

Explanation: Entomology is the science of studying insects. Similarly, Ophiology is the branch of zoology that deals with snakes.

3) Kidneys: Nephron : : Central Nervous System : ?

a) Brain

b) Cerebrum

c) Spinal cord

d) Neurons

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Ans. (d.)

Explanation: Nephrons are the functional units in the kidney. Similarly, Neurons are a specialized cell transmitting nerve impulses.

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4) $Y^2 : 4 :: V^2 : ?$

a) 16

b) 49

c) 9

d) 25

Ans. (d.)

Explanation: 'Y' is the second letter in the alphabetic series from the last and the square of 2 is 4. Similarly, 'V' is the fifth letter in the alphabetic series from the last. Hence, the required answer will be 25.

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5) JOKE : GLHB :: RISK : ?

a) OFPH

b) SJTL

c) ULVN

d) QHRJ

Ans. (a.)

Explanation: JOKE $\xrightarrow{(-3)(-3)(-3)(-3)}$ GLHB;

Similarly, RISK $\xrightarrow{(-3)(-3)(-3)(-3)}$ OFPH.

6) 4 : 17 :: 7 : ?

a) 49

b) 51

c) 48

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d) 50

Ans. (d.)

Explanation: $(4)^2 + 1 = 17$; Similarly, $(7)^2 + 1 = 50$;

7) DFHJ : WUSQ :: HJLN : ?

a) PRTW

b) RTVX

c) TWYZ

d) SQOM

Ans. (d.)

Explanation: DFHJ ----- (4)(6)(10)(12); positions of these letters from the starting in the alphabetic series. Similarly, WUSQ has the same position from the last of the alphabetic series.

HJLN ----- (8)(10)(12)(14);

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Hence, the required answer will be SQOM.

Directions: In Question nos. 8 to 10, a series is given, with one/two term missing. Choose the correct alternative from the given ones that will complete the series.

8) FAK, IEM, LIO, ? .

a) MNO

b) OPQ

c) NOP

d) OMQ

Ans. (d.)

Explanation: FAK ----- (+3)(+4)(+2) ----- IEM ----- (+3)(+4)(+2) ----- LIO ----- (+3)(+4)(+2) ----- OMQ.

9) 3, 5, 35, 10, 12, 35, ____, ____

a) 17, 19

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b) 19, 35

c) 19, 24

d) 22, 35

Ans. (a.)

Explanation: we can group these numbers in the following manner-

(3, 5, 35), (10, 12, 35) and (x, y, z); here, we have to find x, y, and z;

In the above series, first and second numbers are in arithmetic progression with common difference 7. Besides this, third number remains unchanged.

Hence, the value of (x, y, z) == (17, 19, 35);

10) 36, 34, 30, 28, 24, ?

a) 20

b) 22

c) 26

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d) 23

Ans. (b.)

Explanation: The given series alternatively progresses by subtracting 2 and 4 respectively. Hence, the required number will be 22.

Directions: In Question nos. 11 to 13, from the given alternative words, select the words which cannot be formed using the letters of the given word.

11) SUPERINTENDENT

a) INTENSE

b) DENTIST

c) OCTOR

d) NURSE

Ans. (c.)

Explanation: All except the letter 'O' are present in the given word. Hence, option (c.) is the right answer.

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12) INCONVENIENCE

a) CONCEIVE

b) CONVINC

c) CONSCIENCE

d) CONVENE

Ans. (c.)

Explanation: All except the letter 'S' are present in the given word. Hence, option (c.) is the correct answer.

13) DISTRIBUTION

a) SITUATION

b) TUTION

c) DISTURB

d) TRUST

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Ans. (a.)

Explanation: All except the letter 'S' are present in the given word. Hence, option (a.) is the correct answer.

Directions: In Question nos. 14 to 18, find the odd number/letters/number pair from the alternatives.

14)

a) Assassinate

b) Kill

c) Kidnap

d) Murder

Ans. (c.)

Explanation: All except 'Kidnap' have the same meaning i.e. to terminate a person.

15)

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a) 339

b) 428

c) 338

d) 326

Ans. (a.)

Explanation: All except 339 are even numbers.

16)

a) 61 - 12

b) 34 - 30

c) 44 - 31

d) 25 - 21

Ans. (c.)

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Explanation: $61 - 12 ; \Rightarrow (6 + 1) - (1 + 2); \Rightarrow 7 - 3;$

$34 - 30 ; \Rightarrow (3 + 4) - (3 + 0); \Rightarrow 7 - 3;$

$44 - 31; \Rightarrow (4 + 4) - (3 + 1); \Rightarrow 8 - 4;$

$25 - 21; \Rightarrow (2 + 5) - (2 + 1); \Rightarrow 7 - 3;$

Hence, option (c.) is the correct answer.

17)

a) IHJ

b) ONP

c) STR

d) LKM

Ans. (c.)

Explanation:

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I ---- (-1) ----- H ---- (+2) ----- J;

O ---- (-1) ----- N ---- (+2) ----- P;

S ---- (+1) ----- T ---- (-2) ----- R;

L ---- (-1) ----- K ---- (+2) ----- M;

18)

a) Berene

b) Zurich

c) Bristol

d) Geneva

Ans. (c.)

Explanation: All except Bristol belong to Switzerland.

Directions: In Question nos. 19 to 20, which answer figure will complete the pattern in the question figure?

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19)



a)



b)



c)



d)



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Ans. (a.)

Explanation: All except option (a.) overlaps on the given problem figure.

22)



a)



b)



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c)



d)

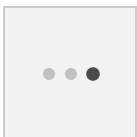


Ans. (d.)

Explanation: All except option (d.) have not all the given portions placed appropriately.

Directions: In Question nos. 23 to 27, select the missing number from the given responses.

23)



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a) 84

b) 104

c) 94

d) 74

Ans.

Explanation: $11 \times 12 = 132$; $6 \times 9 = 54$; Hence, $132 - 54 = 78$;

Similarly, $14 \times 10 = 140$; $7 \times 8 = 56$; Hence, $140 - 56 = 84$;

24)

1	216	343
8	125	512
27	64	?
35	401	1575

a) 575

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b) 340

c) 615

d) 729

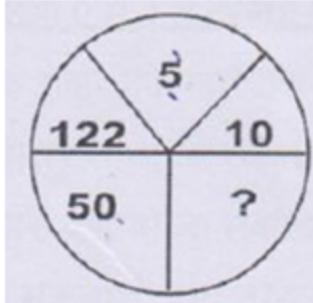
Ans. (d.)

Explanation:

$(1)^3 = 1$	$(6)^3 = 216$	$(7)^3 = 343$
$(2)^3 = 8$	$(5)^3 = 125$	$(8)^3 = 512$
$(3)^3 = 27$	$(4)^3 = 64$	$(9)^3 = 729$
$(1+8+27) = 36;$	$(216+125+64) = 405;$	$(343+512+729) = 1584;$
$36 - (1)^2 = 35;$	$405 - (2)^2 = 401;$	$1584 - (3)^2 = 1575;$

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25)



a) 25

b) 27

c) 26

d) 23

Ans. (c.)

Explanation: $(2)^2 + 1 = 5$;

$(3)^2 + 1 = 10$;

$(5)^2 + 1 = 26$;

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$$(7)^2 + 1 = 50;$$

$$(11)^2 + 1 = 122;$$

26)

2	3	8
4	5	10
6	7	12
<hr/>		
32	50	?

a) 200

b) 92

c) 128

d) 30

Ans. (a.)

Explanation: $(2 + 6) * 4 = 32$; $(7 + 3) * 5 = 50$; $(12 + 8) * 10 = 200$;

27)

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4	3	2	8	32
5	3	1	9	24
7	3	3	7	70
2	9	4	12	?

a) 60

b) 84

c) 120

d) 27

Ans. (b.)

Explanation:

$$4 \times 3 \times 2 + 8 = 32;$$

$$5 \times 3 \times 1 + 9 = 24;$$

$$7 \times 3 \times 3 + 7 = 70;$$

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Similarly, $2 \times 9 \times 4 + 12 = 84$;

28) Kailash walks 3kms to east and turns south and walks 4kms. Again turns west and walks 6kms. How far is he from the starting point?

a) 3 kms

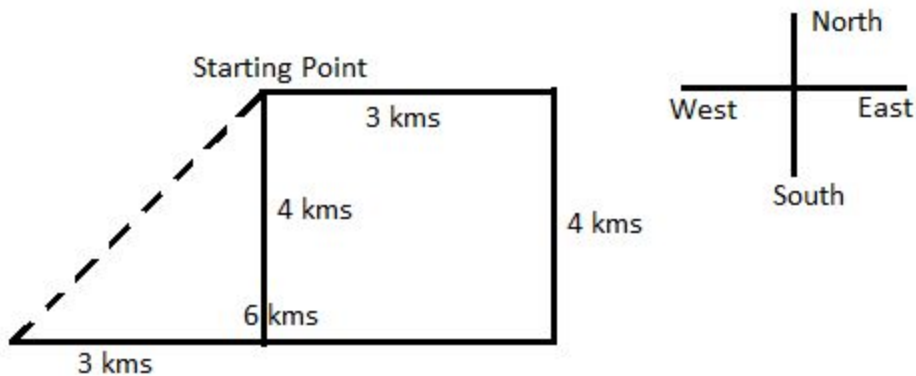
b) 6 kms

c) 7 kms

d) 5 kms

Ans. (d.)

Explanation: The required distance = $\sqrt{(4)^2 + (3)^2} = 5$ kms.



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29) In a certain language FASHION is coded as FOIHSAN. How is PROBLEM coded in that code?

a) ROBLEMP

b) PELBORM

c) PRBOELM

d) RPBOELM

Ans. (b.)

Explanation:

F	A	S	H	I	O	N		P	R	O	B	L	E	M
F	O	I	H	S	A	N	Similarly	P	E	L	B	O	R	M

Hence, option (b.) is the correct answer.

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Directions: In Question nos. 30 to 32, identify the diagram that best represents the relationship among classes given below:

30) Tigers, Lions, Animals?

a)



b)



c)



d)



Ans. (c.)

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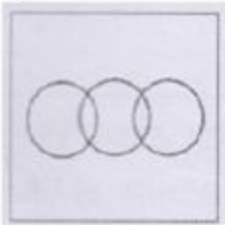
Explanation: Tigers and Lions are animals.

31) Languages, English, and Kannada?

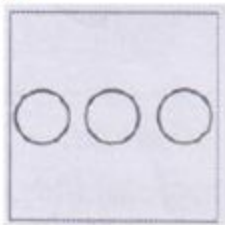
a)



b)



c)



d)



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Ans. (a.)

Explanation: English and Kannada both are languages.

32) Professors, Researchers, Scientists

a)



b)



c)



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d)



Ans. (a.)

Explanation: A professor can be researcher and scientist & so on. Hence, option (a.) is the right answer.

Directions: In Question nos. 33 to 34, one or two statements is given followed by two conclusions/assumptions, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions/assumptions can definitely be drawn from the given statement. Indicate your answer.

33) Statements:

1. Some Politicians are social workers.

2. All Doctors are social workers.

Conclusions

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I. Some Doctors are Politicians

II. Some Social workers are Doctors as well as Politicians

a) Neither conclusion I nor II follow.

b) Only conclusion I follow.

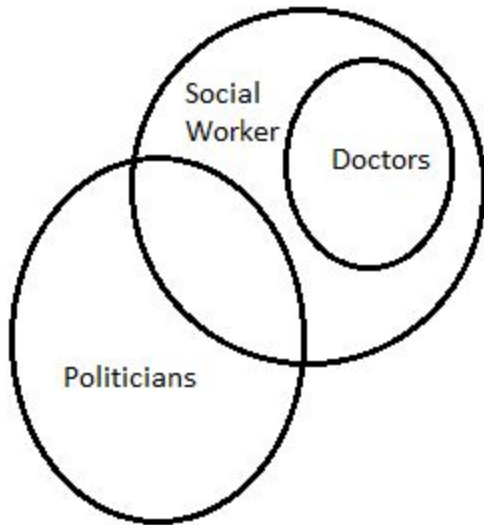
c) Both conclusions I and II follow.

d) Only conclusion II follow.

Ans. (a.)

Explanation: The following figure explains the above given statements-

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34) Statements: The crop condition continues to be critical even after the rains.

Conclusions:

I. The crop condition was not critical before rains.

II. The crop condition was expected to improve after the rains.

a) Only conclusion II follow.

b) Neither conclusion I nor II follow.

c) Both conclusions I and II follow.

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d) Only conclusion I follow.

Ans. (a.)

Explanation: if the crop continues to be critical even after the rains. It means that the crop condition was expected to improve after the rain. Hence, only conclusion (II) is implicit.

35) If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



a)



b)



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c)



d)



Ans. (a.)

Explanation: The mirror is placed on the top. Hence, the answer figure will be 180 degree inversion of the given figure vertically.

36) After interchanging + and -, 8 and 7, which one of the following becomes correct?

a) $2 \times 8 + 6 - 9 = 25$

b) $8 - 7 + 3 \times 5 = 35$

c) $6 + 8 \times 2 - 7 = 0$

d) $8 \times 2 + 7 - 6 = 9$

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Ans. (c.)

Explanation:

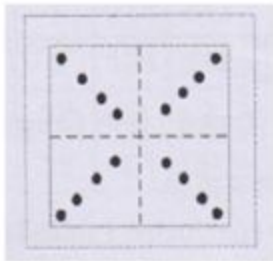
Option (a.): $2 \times 7 - 6 + 9 = 25$; $\Rightarrow 17 = 25$; which is wrong.

Option (b.): $7 + 8 - 3 \times 5 = 35$; $\Rightarrow 2 = 35$; which is wrong.

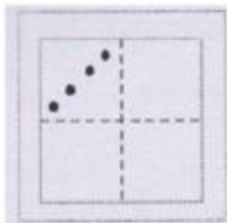
Option (c.): $6 - 7 \times 2 + 8 = 0$; $14 = 14$; which is true;

37) If a paper is folded in a particular manner and a punch is made, when unfolded this paper appears as given below in the question figure. Find out the manner in which the paper is folded and the punch is made from the answer figures given.

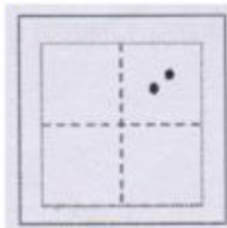
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a)

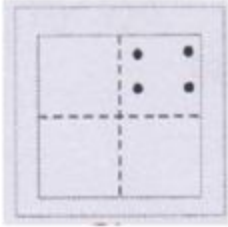


b)

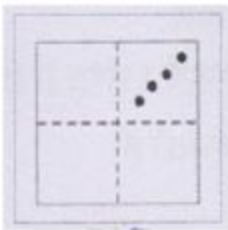


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c)



d)



Ans. (d.)

Explanation: If we imagine to unwrap the option (d.), then we can get the problem figure.

38) In a certain code 'GARNISH' is written as 'RGAINHS'. How will "GENIOUS" be written in that code?

a) NGEOISU

b) NEGIOUS

c) GENOISU

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d) ENGOIUS

Ans. (a.)

Explanation:

G	A	R	N	I	S	H		G	E	N	I	O	U	S
R	G	A	I	N	H	S	Similarl y	N	G	E	O	I	S	U

Directions: In Question nos. 39 to 40, arrange the following words as per order in the dictionary.

39) (1) Convince (2) Converge (3) Convenience (4) Convalesce (5) Converse

a) 1, 4, 3, 2, 5

b) 4, 2, 2, 1, 5

c) 4, 3, 2, 5, 1

d) 4, 2, 5, 3, 1

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Ans. (c.)

Explanation: The sequence of the given words as per the English Dictionary-

Convalesce (4) > Convenience (3) > Converge (2) > Converse (5) > Convince (1);

**40) (1) Consume (2) Consciousness (3) Conscience (4) Conservation (5)
Consequence**

a) 3, 2, 5, 4, 1

b) 3, 1, 2, 5, 4

c) 3, 5, 2, 4, 1

d) 3, 2, 1, 5, 4

Ans. (a.)

Explanation: The sequence of the given words as per the English Dictionary-

**Conscience (3) > Consciousness (2) > Consequence (5) > Conservation (4) >
Consume (1);**

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41) Select from the alternatives an appropriate term that is identical to the term given in the question.

A C E G

a) O Q S U

b) G H J N

c) I J L M

d) B D E F

Ans.

Explanation: A ----(+2) ----- C -----(+2) ----- E -----(+2) ----- G;

Similarly, O ----(+2) ----- Q -----(+2) ----- S -----(+2) ----- U;

42. If '+' means '-', '-' means 'x', 'x' means '÷' and '÷' means '+'. Which combination will give you the value of '0' in $42*4*12*20*6$?

a) ÷ + x -

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b) + - ÷ x

c) - ÷ x +

d) x - ÷ +

Ans. (a.)

Explanation:

$42 \times 4 / 12 - 20 + 6 = 0$; Since, notations for these symbols are changed as per the question. Hence, option (a.) is the right answer.

43) Six members of a family namely A, B, C, D, E, F are traveling together. 'B' is the son of C but C is not the mother of B. A and C are married couple. E is the brother of C. D is the daughter of A. F is the brother of B. How many male members are there in the family?

a) 4

b) 2

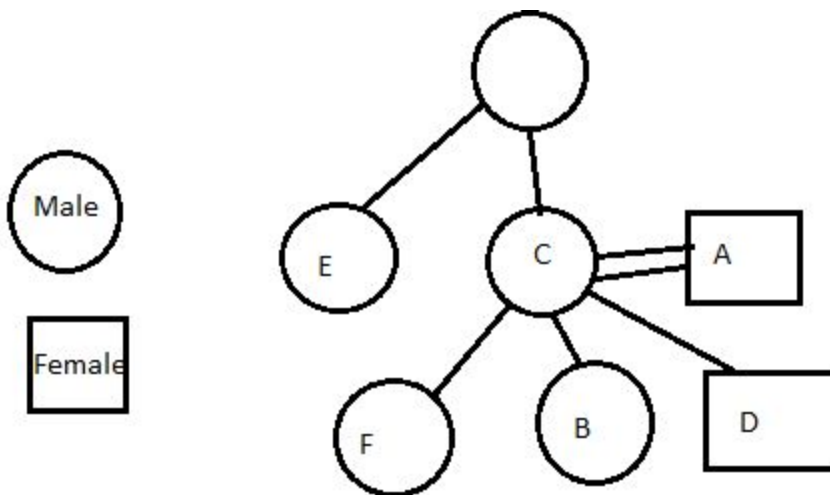
c) 1

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d) 3

Ans. (a.)

Explanation:



44) Ann, Bill and Ken shared some stamps in the ratio 2:3:4. After a game the ratio became 5:2:2. If Ann won 21 stamps how many did Ken lose?

a) 7

b) 28

c) 14

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d) 21

Ans. (c.)

Explanation: 2: 3: 4 ----- (After a game) ----- 5: 2: 2;

$$3x = 21; \Rightarrow x = 7;$$

Hence, ken loses = $2 \times 7 = 14$;

45) If ROME is written as MORE then DARE is written as:

a) RDEA

b) RAED

c) RDAE

d) RADE

Ans. (d.)

Explanation:

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R	O	M	E	Similarly	D	A	R	E
M	O	R	E		R	A	D	E

46) Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

BR__NB_O_NB

a) OWRW

b) OWOW

c) WNWN

d) RORO

Ans. (a.)

Explanation:

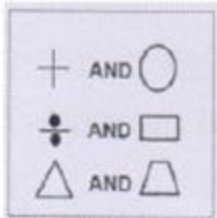
B R O W N B R O W N B

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47) If a paper is folded as shown in figure to form a cube, then the pairs of opposite faces are:

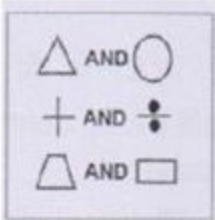


a)

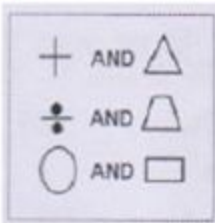


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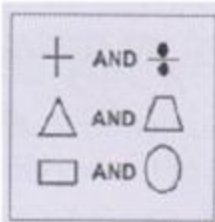
b)



c)



d)



Ans. (b.)

Explanation: If we imagine the formation of cube, then option (b.) would be the most appropriate answer.

48) Raju drives 25 km north and turns left and travels 5 km and reaches point 'O'. He then turns right and covers another 5 kms. Afterwards turns to east and drives 5 km. How much distance he has to travel to go back to the starting point?

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a) 30 kms

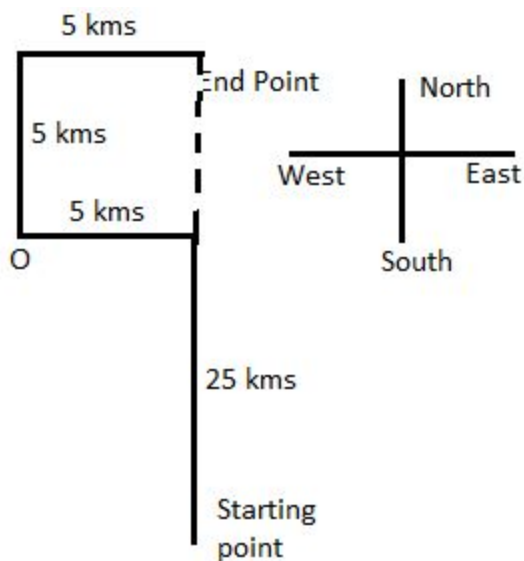
b) 20 kms

c) 35 kms

d) 25 kms

Ans. (a.)

Explanation: From the figure given below, we can deduce that the distance between starting and end point will be 30 kms.



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49) There are deer and peacocks in a zoo. By counting heads they are 80. The number of their legs is 200. How many peacocks are there?

a) 30

b) 50

c) 60

d) 20

Ans. (c.)

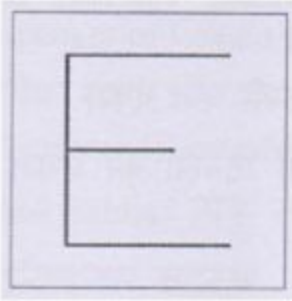
Explanation: let number of deer = x ; the number of peacocks = y ;

$$x + y = 80; 4x + 2y = 200;$$

By solving these equations, we can get- $x = 20$ and $y = 60$;

50) Select the answer figure in which the question figure is hidden.

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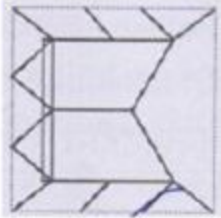


a)



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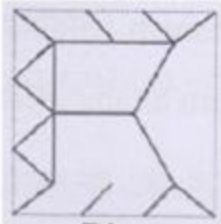
b)



c)



d)



Ans. (b.)

Explanation: After superimposing the given figure on every option, we can observe that option (b.) is the most suitable answer.