Year	Questions	Marks
2012	20	20
2013	20	20
2014	15	15
2015	15	15
2016	15	15
Total	**85**	**85**

1. Latika delivers bottled water to stores in Delhi. She delivers to MTG's Bookstore every 6th day and to Sammy's Bookstore every 9th day. On Thursday the 4th, she will deliver water to both of these stores. How many days after that will she deliver to both stores on the same day again? [2012]

S	M	T	W	T	F	S
	1	2	3	MTG's & Sammy's 4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

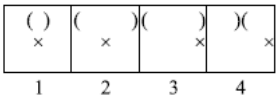
(A) 17 (B) 18 (C) 19 (D) 16

Ans:

Solution: Latika delivers bottled water to MTG's bookstore every 6th day and Sammy's bookstore every 9th day On Thursday the 4th she will deliver water to both of these stores So,
we calculate from the 4th, Take LCM of 6 and 9 we get a value 18 She delivers bottle to the same book store on 18+4=22 days

2. Select a figure from the options which will continue the series established by the four problem figures. [2013]

Problem Figures



(A)

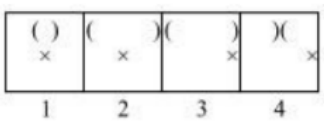
(B)

(C)

(D)

Ans: B

Solution:



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3. Answer the question referring to the symbol-letter- number sequence given below:
P : 3 # R U 2 + > A P Y B 4 Q : S £ 5 N ↔ F G 8 * D 7 Y R : O × H T 6 @ C 9 Z K × 1
What is the difference between the total letters and total symbols, which are used in the series of P, Q and R [2014]

(A) Eight (B) Nine (C) Six (D) Seven

Ans: B

4. Which of the following indicates similar relationship as 'LOWER' has with 'WORLE'? [2015]

(A) ENTRY : RNYET (B) WORDS : ROSWD
(C) AMONG : OMNAG (D) GLAZE : AGELZ

Ans: B
Solution: Position of 1st Letter becomes 4th letter of 2nd word, 2nd letter remains same, 3rd letter of first word becomes 1st letter of 2nd word, 4 letter becomes 5th of 2nd and 5th of first word becomes 3rd Using same analogy WORDS:ROSWD is the correct option.

5. Following question is based on five words given below: RAG FIN PUT LOW SUE
(The new words formed after performing the mentioned operations may or may not necessarily be meaningful english words.)
If in each of the given words, consonants are changed to previous letter and vowels are changed to next letter in the English alphabetical series, then in how many words thus formed will no vowels appear? [2016]

(A) None (B) One (C) Two (D) Three

Ans: B
Solution: Three words can be formed will no vowels appear.
(I) RAG--> QBF (ii) LOW--> KPX (iii) SUE--> RVF. Option D is right answer.

6. Find out the correct letter pair from the options, to denote the same relationship among the group of letters as established between the sets given below. Rt : WZ: _____: _____ [2012]

(A) AC : RU (B) AB : PW (C) PR : LM (D) TU : WX

Ans: A
Solution: Here given, RT: WZ: _____: _____
We know the alphabet series, RT = R, S, T
In this only one letter “S” is between R and T then for WZ = W, X, Y, Z two letters
“X” and “Y” are there between W and Z
So only option C is satisfied above condition because AC = A, B, C and
RU = R, S, T, U, So, RT: WZ: AC: RU

7. Pointing to a man in a photograph, a woman says, “He is the only son of the only daughter-in-law of my only son's father." How is the man related to the woman? [2013]

(A) Son (B) Father (C) Son-in-law (D) Grandson

Ans: D

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Solution: ''My only son's father" ⟹ woman's husband "only daughter in law of my only son's father ⟹ Woman's husband daughter in law ⟹ Her Daughter in law
"Son of the only daughter in law of my only son's father" ⟹ Her Grandson

8. In a certain code language, the word HURDY-GURDY is written as GF-GE and HOB-NOB is written as BE-CA How wills the word HUGGER-MUGGER be written in that language? [2014]
(A) EI-AG (B) EI-GA (C) EF-GA (D) FF-GA

Ans: D

9. If it is possible to make a meaningful word with the second, fourth, sixth and eighth letters of the word UMBRELLA, then which of the following will be the third letter of that word? If more than one such word can be formed, give 'Z' as the answer. If no such word can be formed give 'X' as the answer. [2015]
(A) X (B) M (C) Z (D) R

Ans: D
Solution: M, R, L, A MARL means unconsolidated sedimentary rock. Hence 3rd letter would be R.

10. In a row of children, Trishika is fifteenth from the left end of the row. If she is shifted towards the right end of the row by four places, she becomes eighth from the right end How many children are there in the row? [2016]
(A) 27 (B) 26 (C) 28 (D) 24

Ans: B
Solution: She is fifteenth from left end of the row and she shifted towards right by four places.
That means she is on nineteenth from left end and 18 students are there from left end before her but she is on eighth position from right end so, the total numbers of students are 18 + 8= 26 students.
Option B is right answer.

11. If 'FRIIHH' stands for 'coffee' how will you write 'NOODLES'? [2012]
(A) RSSHPIW (B) PQQFNGU (C) QRRGOHV (D) RSSHPIV
Ans: C
Solution: F = C, alphabets difference between F and C is F, E, D, C R = O, alphabets difference between R and O is R, Q, P, O. All remaining letters have a difference of two letter in reverse order So, For 'NOODLES' we take two letter difference in reverse order then we get 'QRRGOHV'

12. Which of the following options will complete the pattern in figure (X)? [2013]

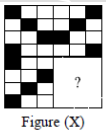

Figure (X)

(A)
(B)
(C)
(D)

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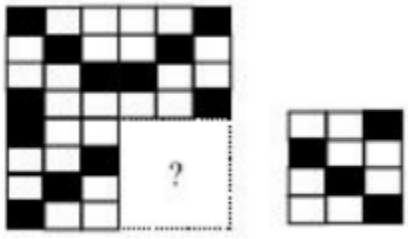
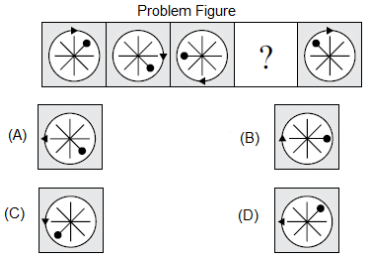
Ans: D

Solution:



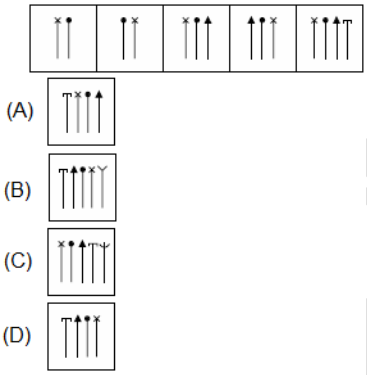
13. Find the missing figure which will replace the (?) in Problem Figures to complete the series. [2014]



Ans: B

14. Select a figure from the options which will continue the same series as established by the Problem Figures. [2015]

Problem Figures



Ans: D

Solution: Option D, The line with solid circle acts as mirror. Hence it will work as a mirror for 5th set of figure and the correct option would be D.

15. Two rows of number are given. The resultant number in each row is to be worked out separately based on the following rules and the question below the rows of numbers is to be answered The operations of numbers progress from left to right. [2016]

Rules:

(i) If a two-digit even number is followed by another even number, the first one is to be divided by the second one.

(ii) If an even number is followed by a prime number, the two are to be multiplied.

(iii) If an odd number is followed by another odd

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number, the two are to be added.

(iv) If a three-digit number is followed by a two-digit number which is a perfect square, the second number is to be subtracted from the first number.

(v) If a three-digit number is followed by a two-digit number which is not a perfect square, the first number is to be divided by the second number.

84	14	13
360	24	17

What is the difference between the resultants of the first row and the second row?

(A) 100 (B) 46 (C) 56 (D) 90

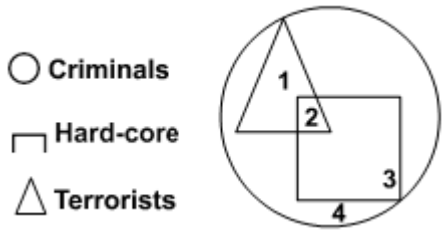
Ans: B

Solution: 1st Row:- 84 to be divided by 14 and then result will be multiplied by 13; so we get 78

2nd Row:- 360 to be divided by 24 and then added to 17; we get 32

Now, 78 – 32 = 46

16. Terrorists who are not hard-core criminals are represented by _____. [2012]



(A) 2 (B) 3 (C) 4 (D) 1

Ans: D

17. Arrange the given words in a meaningful sequence and then choose the most appropriate sequence.

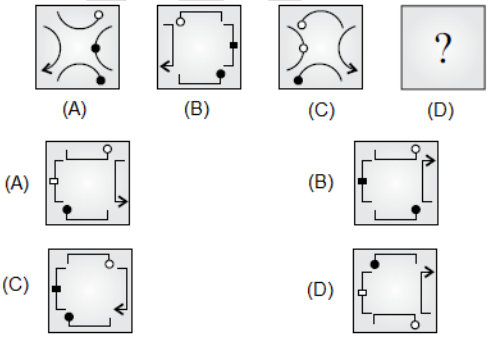
1. Cutting 2.Dish 3.Vegetable 4.Market 5.Cooking [2013]

(A) 1, 2, 4, 5, 3 (B) 3, 2, 5, 1, 4 (C) 4, 3, 1, 5, 2 (D) 5, 3, 2, 1, 4

Ans: C

Solution: Market, Vegetable, Cutting, Cooking, Dish

18. There is a certain relationship between fig. (i) and (iii). Establish the similar relationship between fig. (ii) And (iv) by selecting a suitable figure from the options which will replace the (?) in fig. (iv). [2014]



Ans: A

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19. Raman starts from point P and walks towards East and stops at point Q. He now takes a right turn followed by a left turn and stops at point R. He finally takes a left turn and stops at point S. If he walks 5 km before taking each turn, then towards which direction will Raman have to walk from point S to reach point Q?
(A) North (B) South (C) West (D) East [2015]

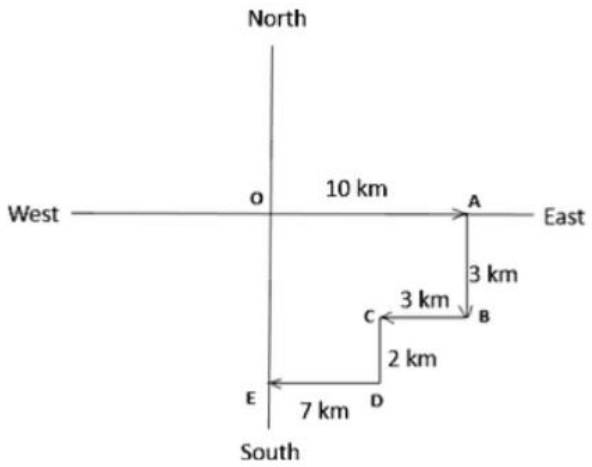
Ans: C
Solution: We can see, to go from S to Q Raman has to walk towards west.

20. Study the following information carefully and answer the questions given below. [2016]
(i) A, B, C, D, E, F and G are playing cards sitting around a circular table.
(ii) D is not the neighbor of C and E.
(iii) A is the neighbor of B and C.
(iv) G, who is second to the left of D, is the neighbor of E and F.
What is the position of 'C'?
(A) To the immediate left of A. (B) To the immediate right of E.
(C) Third to the right of F. (D) Second to the right of B.

Ans: D
Solution: D is between B and F, A is between B and C, G is between E and F which is second to the left of D So, C's position is the second to the right of B Option D is the right answer.

21. A tourist drives 10 km towards east and turns to the right hand and drives 3 km. then he drives towards west (turning to his right) 3 km. He then turns to his left and drives 2 km. Finally he turns to his right and travels 7 km. How far is he from his starting point and in which direction would he be? [2012]
(A) 10 km, East (B) 5 km, South (C) 8 km, West (D) 5 km, West

Ans: D
Solution:



Here, point O is a starting point and tourist drives 10 km towards the east So OA = 10km, Then he turns to the right and drives 3 km, so, AB = 3 km Then tourist drives towards west 3 km, BC = 3km and He then turns to his left and drives 2 km (CD = 2 km) He turns to the right and travels 7 km so, DE = 7 km Distance from the starting point OE = AB+CD=3+2=5km

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22. If in a certain code '56431' is written as 'RSHTU' and '98270' as 'MLKPA', then how will '9517' be written in the same code? [2013]

(A) MURP (B) MRUP (C) MRPU (D) MRPT

Ans: B

Solution:

5	6	4	3	1
R	S	H	T	U

9	8	2	7	0
M	L	K	P	A

9	5	1	7
M	R	U	P

23. Select the correct mirror image of the given below combination of letters, if the mirror is placed vertically to the left. [2014]

LoGiCaLReAsOnInG

(A) ƃnIuOsAɘЯlaƆiƃoJ

(B) ƃnIuOsAɘЯlaƆiƃoJ

(C) ƃnIuOsAɘЯlaƆiƃoJ

(D) ƃnIuOsAɘЯLaƆiƃoJ

Ans: B

24. How many such 4's are there in the given below arrangement which are immediately preceded by a pair of numbers whose product is more than the product of pair of numbers immediately following 4? [2015]

4 3 7 8 4 4 5 6 4 3 2 4 1 7 4 4 5 2 1 4 6 8 9 4 8 9
4 7 8 6 4 2 5 4 4 6 2

(A) 3 (B) 4 (C) 5 (D) 7

Ans: D

Solution: 4 3 7 8 4 4 5 6 4 3 2 4 1 7 4 4 5 2 1 4 6 8 9 4 8 9 4 7 8 6 4 2 5 4 4 6 2

7*8 > 4*5, 8*4 > 5*6, 5*6 > 3*2, 7*4 > 5*2, 8*9 > 7*8, 8*6 > 2*5, 5*4 > 6*2 so in total there are 7 fours

25. Pointing to a photograph Monika said, "He is the brother of the son of my grandfather's only child." How is the man related to Monika? [2016]

(A) Brother (B) Cousin (C) Nephew (D) can't be determined

Ans: A

Solution: Grandfather's only child means Monika's father. Son of Monika's father is brother of Monika So, Option A is the right answer.

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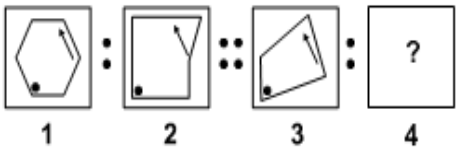
26. The relationship in the first set (1 & 2) of Problem Figures is given. Based on the same relationship, find the suitable figure from answer figures to fit in the blank space of second set (3 & 4). [2012]

Problem Figures



(A)
(B)
(C)
(D)

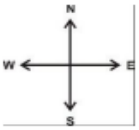
Ans: D

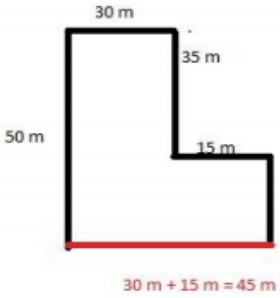
Solution: In the 1st figure, Hexagon is given with six angles, in second one new figure is created with one less angle (five angles) of hexagon In both figure position of dot is remaining same and arrow is in front of the dot. Figure with four angles is given in 3rd figure so, we get one less angle figure means figure with three angles, position of dot and arrow is remaining same.
So Only option D is satisfying all the above condition

27. Raman walks 50 m north. Then he turns right and walks 30 m. Then he turns right and walks 35 m. Then he turns left and walks 15 m. Then he again turns right and walks 15 m.
In which direction and how many metres away is he from his original position? [2013]
(A) 45 metres West (B) 30 metres East (C) 30 metres West (D) 45 metres East

Ans: D

Solution:





30 m + 15 m = 45 m

45 m East

28. Shivam and Varun want to visit the museum after their exam. Shivam's exam finishes on 9th April and he is leaving for a holiday on 12th April. Varun's exam will be over by 10th April after which he is free.
On which of the following dates can the two definitely meet? [2014]
(A) 10th April (B) either 10th or 11th April (C) 11th April (D) either 11th or 12th April

Ans: C

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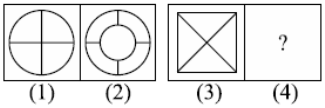
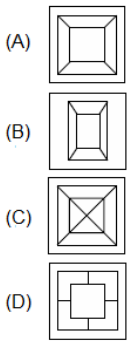
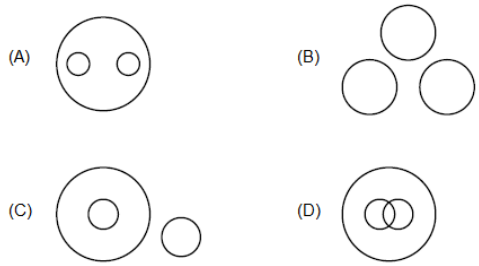
29. There is a definite relationship between figures (1) and (2). Establish a similar relationship between figures (3) and (4) by selecting a suitable figure from the options that would replace the (?) in fig. (4). [2015]





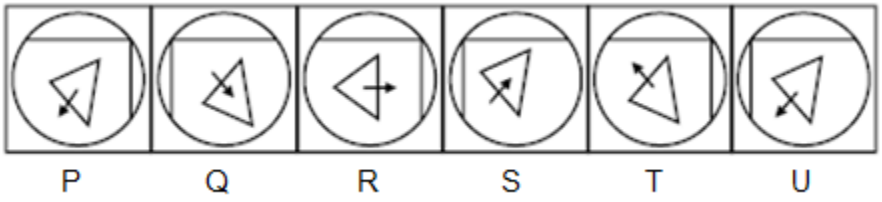
Ans: A
Solution: A small solid square should be in center co cover the diagonals part as well
Correct option is A.

30. Which of the following Venn diagrams best illustrates the relationship amongst, "Sun, Moon and Stars"? [2016]



Ans: C
Solution: Moon covered with starts and sun is the different. Option C is the right answer.

31. Find the odd one amongst the set of figures of a series. [2012]



(A) Q (B) R (C) T (D) U

Ans: D
Solution: In all the figures except U the arrow rotates in the clock wise direction with alter in or out going direction. But in U arrow rotates in anticlockwise direction so this odd one amongst the set of the figures of a series.

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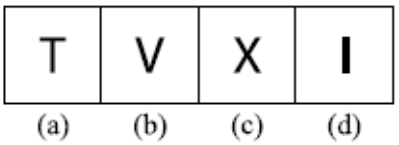
32. Out of the four figures marked (a), (b), (c) and (d) three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest. [2013]



(A) a (B) b (C) c (D) d

Ans: D
Solution: All the letters have 2 strokes constructing it except (**I**)

33. A, B, C, D, E, F, G and H are sitting around a circle facing the centre. D is second to the left of H, who is third to the left of AB is fourth to the right of C, who is the immediate neighbor of H. G is not a neighbor of B or C F is not a neighbor of B How many of them are sitting between C and B? [2014]

(A) Two (B) Four (C) Two or Four (D) Three

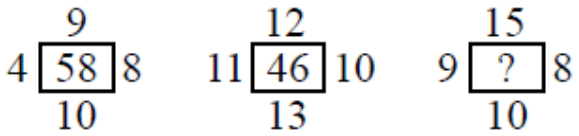
Ans: D

34. Aakash, Priya, Shikha, Mohit, Riya, Giya and Mukta are sitting around a circle facing the centre. Aakash is third to the left of Mukta and to the immediate right of Riya Priya is second to the left of Giya, who is not an immediate neighbour of Mohit. Who is to the immediate right of Priya? [2015]

(A) Mohit (B) Shikha (C) Mukta (D) Can't be determined

Ans: C
Solution: So we can see, (Mukta) is immediate right of Priya.

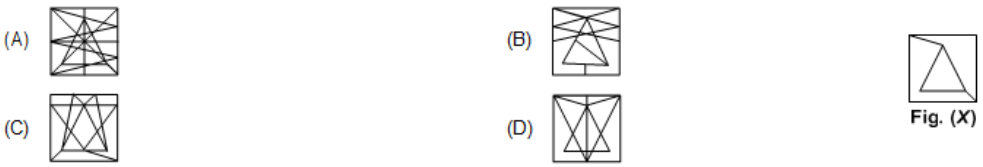
35. Find out the missing number, if same rule is followed in all the three figures. [2016]



(A) 117 (B) 100 (C) 78 (D) 63

Ans: C
Solution: 15 * 10 – 9 * 8
150 – 72= 78. So, option C is the correct answer.

36. Find a figure from the options in which Fig. (X) Is embedded as its part. [2012]



Ans: A

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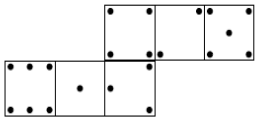
37. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube? [2013]



(A) 2 (B) 4 (C) 5 (D) 6

Ans:
Solution: 4 lie opposite 5
1 lies opposite 2
6 lies opposite 3
Therefore, when this figure is folded to form a cube then the face bearing six dots will lie opposite the face bearing three dots.

38. Introducing a man, a woman says, "His wife is the only daughter of my father". How is the man related to the woman? [2014]

(A) Brother (B) Father-in-law (C) Maternal Uncle (D) Husband

Ans: D

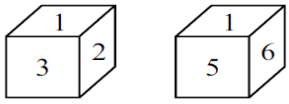
39. Select the correct mirror-image of Fig. (X), if mirror is placed vertically to the left. [2015]

Fig. (X)

(A)
(B)
(C)
(D)

Ans: A
Solution: 1st option is the correct one as the mirror is vertically placed in left of the given figure

40. Two positions of a dice are shown here. When 4 are at the bottom, which number will be on the top? [2016]



(A) 1 (B) 2 (C) 5 (D) 6

Ans: A
Solution: Dice positions are (I) when 4 is at the bottom 1 will be on the top (ii) when 5 is at the bottom 2 will be on the top and (iii) when 6 is at the bottom 3 will be on the top. So, Option A is the right answer.

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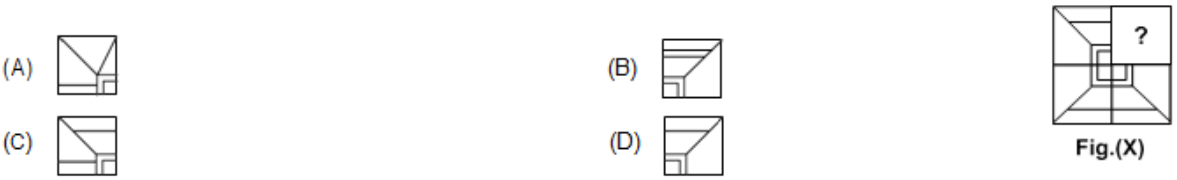
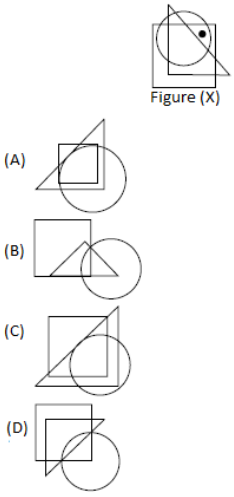
41. Select the figure from the options which completes the Fig. (X) [2012]

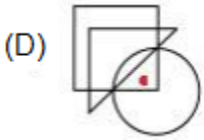


Ans: C

42. Select a figure from the options, which satisfies the same conditions of placement of the dot as in [2013]



Ans:
Solution: In the given figure dot is in circle and square but not in triangle.



43. P, Q and R are three cities on a map. P is north of Q and PQR is 45° in clockwise direction. In what direction is R from Q? [2014]

(A) North-East (B) North-West (C) South-East (D) South-West

Ans: A

44. Pointing to Kartik, Vivan said, "His mother's brother is the father of my son Nitin." How is Kartik related to Vivan? [2015]

(A) Brother (B) Uncle (C) Nephew (D) Father

Ans: C
Solution: Karthik's Mother's brother is the father of Vivian's Son, Nitin.
Hence Karthik is Nephew of Vivian.

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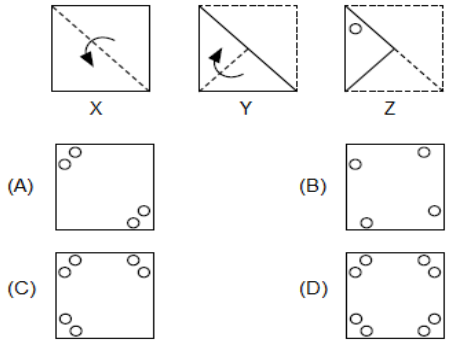
45. Three figures (X), (Y) and (Z) shows a sequence of folding of a sheet of paper. Fig (Z) shows the manner in which the folded paper has been cut. Select a figure from the options which represents the unfolded form of Fig. (Z). [2016]

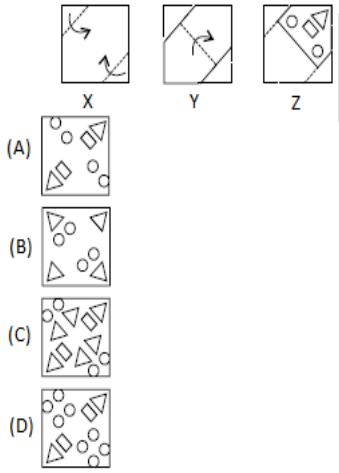


Ans: A
Solution: Option A represents the unfolded form of Fig. (Z). so, option A is correct answer.

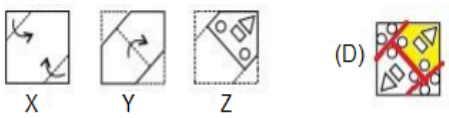
46. The Sharma's have three children Sunita, Sanjay and Sheela Sunita is married to Sonil Mahajan and they have a son Shoban. Sheela marries Sanjay Bhandari and Vinit and Lily are their children.
Sanjay (Sunita's brother) is younger to Sunita but elder to Sheela What is the surname of Shoban ? [2012]
(A) Bhandari (B) Sharma (C) Mahajan (D) None of these

Ans:
Solution: Sharma's have three children Sunita, Sanjay and Sheela.In that Sunita is married to Sonil Mahajan and have a son whose name is Shoban so, surname of the Shoban will be Mahajan.

47. Given question consists of a set of three figures X, Y and Z showing a sequence of folding of a piece of paper. Fig (Z) shows the manner in which the folded paper has been cut. Choose a figure from the options which would most closely resemble the unfolded form of piece of paper. [2013]



Ans: D
Solution:



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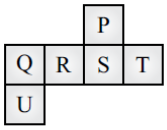
48. The given figure shows the net of a cube. Which two faces lie opposite to each other? [2014]



(A) P and Q (B) P and U (C) Q and T (D) S and U

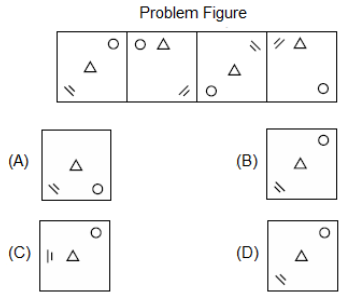
Ans: B

49. Which of the following options represents the given Venn diagram? [2015]

(A) Body, Hand, Eatables (B) Mammal, Nurse, Woman
(C) Star, Moon, Mars (D) Swimmer, Carpenter, Singer

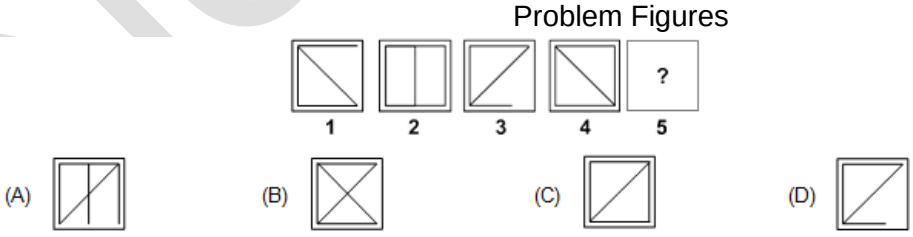
Ans: A
Solution: Hand is part of Body and eatables are not related The Venn diagram shows the 1st option.

50. Select a figure from the options which will continue the same series as established by the Problem Figures. [2016]



Ans: D
Solution: Option D is the correct answer.

51. Select the figure from the options which should complete the series formed by Problem Figures 1, 2, 3 and 4. [2012]



Ans: D
Solution: In the given series each of the alternate figure have one opened and a closed part but line is alternate change in next to next figure .But in the 4th,figure it is closed So, we get a next figure with opened one part So, Figure (option D) will continue the series.

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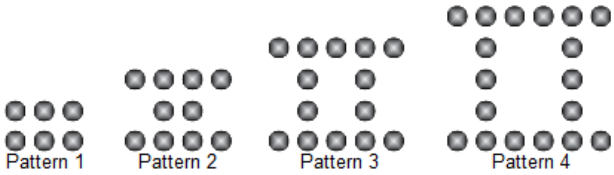
52. If '×' means 'is father of ', '+' means 'is sister of ', '–' means 'is brother of ', and '÷' means 'is mother of ', then which of the following statements means 'S is grand-daughter of P'? [2013]

(A) P×T+R÷S (B) P÷Q–R÷S–T (C) P×R–T×S (D) P÷Q–R×S+T

Ans:
Solution: P is mother of Q
Q is brother of R
R is father of S
S is sister of T
P's son R's daughter S

53. The given figures show a series of patterns formed by using circles. [2014]

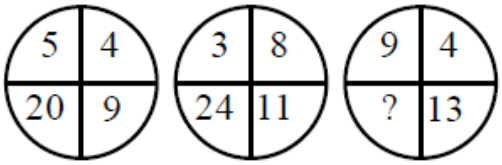


How many more circles are there in Pattern 10 than in Pattern 8?

(A) 4 (B) 6 (C) 8 (D) 10

Ans: C

54. Find the missing number, if the same rule is followed in all the three figures. [2015]



(A) 117 (B) 36 (C) 32 (D) 26

Ans: B
Solution: 9*4 = 36 in the question mark the product of upper two numbers should be filled.

55. Select a figure from the options in which Fig. (X) Is exactly embedded as one of its part. [2016]

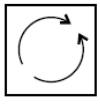


Fig. (X)

(A)
(B)
(C)
(D)

Ans: A
Solution: According to the arrows of lines shown in Fig. (X), Option A is the correct answer.

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56. Study the following letter-number arrangement and answer the question given below.
B 8 4 c R M 9 P D K W F A 2 e J 7 X U Q H L T Y 6 g S if every alternate letter/number is dropped in the above arrangement beginning with dropping '4' as first number to be dropped, which of the following will be third to the right of the fifth letter/number from left end? [2012]

(A) W (B) 2 (C) 7 (D) A

Ans: B
Solution: Alternate letter/number is dropped from the above arrangement starting with '4'
B 8 4 C R M 9 P D K W F A 2 E J 7 X U Q H L T Y 6 G S We get a new arrangement,
B 8 C M P K F 2 J X Q L Y G Now, third to the right of the fifth letter/number from left end
B 8 C M P K F 2 J X Q L Y G So, the number will be 2.

57. Study the following arrangement carefully and answer the question given below: R DAK 5 B I 2 M J E N 9 7 U ZV 1 W 3 H 4 FY 8 P 6 TG How many such consonants are there in the above arrangement each of which is immediately preceded by a vowel and immediately followed by a number? [2013]

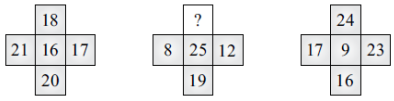
(A) None (B) One (C) Two (D) Three

Ans: C
Solution:

R	D	A	K	5	B	I	2	M	J
E	N	9	7	U	Z	V	1	W	3
H	4	F	Y	8	P	6	T	G	

A number of consonant immediately preceded by a number and a vowel is 2

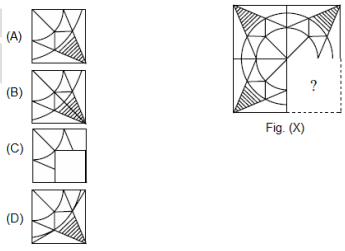
58. The characters in given figures follow a certain rule row-wise or column-wise. Identify the rule and find the missing number [2014]



(A) 1 (B) 8 (C) 16 (D) 9

Ans: A

59. Select a figure from the options, which when placed in the blank space of Fig. (X) Would complete the pattern. [2015]



Ans: A
Solution: Option A will complete the pattern.

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60. Select a figure from the options which satisfies the same conditions of placement of the dots as in Fig (X) [2016]

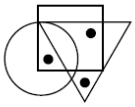
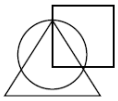
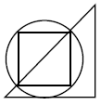
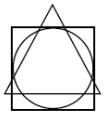
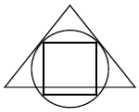


Fig. (X)

(A) 

(B) 

(C) 

(D) 

Ans: C
Solution: Option C is the correct answer

61. Find the missing number in Fig. (X). [2012]

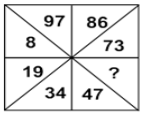


Fig.(X)

(A) 56 (B) 58 (C) 60 (D) 62

Ans: B
Solution: Let X be the missing number and based on the data's available We start from 8 and rotating in a anti clockwise direction After 8 we get a value 19, difference = 19-8=11 then 19 becomes 34, difference = 34-19=15 Then 34 becomes 47, difference = 47-34=13 So,
the value difference is (11, 15, 13, 11, 15, 13, ……) will be continued for next to next values in anticlockwise direction As X is assumed as missing number then next value difference will be 11
So, x-47=11 Missing number x=58

62. There is a square transparent sheet with a given pattern is given. Figure out from the options as to how the pattern would appear when the transparent sheet is folded along the dotted line. [2013]

(A)

(B)

(C)

(D)

Ans: D

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Solution:

63. Read the following information and answer the following question:
    1. Seven students P, Q, R, S, T, U and V take a series of tests.
    2. No two students get the same marks.
    3. V always scores more than P.
    4. P always scores more than Q.
    5. Each time either R scores the highest and T gets the least, or alternatively S scores the highest and U or Q scores the least.

    If R gets most, V should be ranked not lower than [2014]

    (A) Second (B) Third (C) Fourth (D) Fifth

    Ans: C

64. In the given question, two rows of numbers are given. Resultant number in each row is to be worked out separately based on the following rules and the question below the rows of numbers is to be answered The operations of numbers progress from left to right.

    Rules:

    1. If an even number is followed by a prime number, they are to be multiplied.
    2. If an even number is followed by a composite odd number, odd number is to be subtracted from the even number.
    3. If an odd number is followed by a prime number, the first number is to be divided by the second number.
    4. If an odd number is followed by an even number which is a perfect square, they are to be added.
    5. If an odd number is followed by composite odd number, they are to be added.

23	15	9	64
X	31	15	3

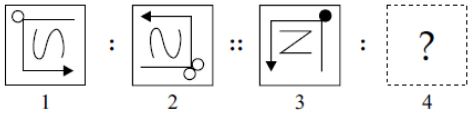
    If x is the resultant of the first row, then what is the resultant of the second row? [2015]

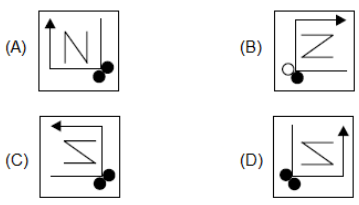
    (A) 54 (B) 18 (C) 21 (D) 72

    Ans: A

    Solution: 54 will be the correct answer.

65. There is a certain relationship between figures 1 and 2. Establish the same relationship between figures 3 and 4 by selecting a suitable figure from the options which will replace (?) in Fig. 4. [2016]





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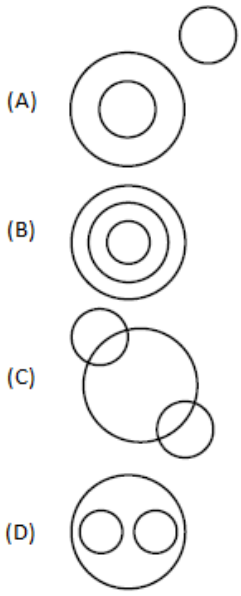
Ans: D
Solution: According to direction of arrow and line, suitable figure from the options is option D because Figure 3 in downward direction and option D is the only option in upward direction. So, Option D is the Correct answer.

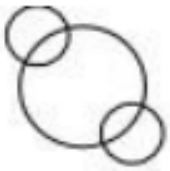
66. The underlined letters indicate the end of the first word and beginning of second word Choose the correct option. E X (___) A C L E [2012]
(A) PERT (B) TANT (C) TENT (D) ENCE

Ans: C
Solution: Option C is a correct one, when we take TENT we get a word EXTENT and TENTACLE EXTENT means area or length and TENTACLE means one of the long, thin parts like arms of some sea animals, used for holding things, catching food, or moving.

67. Which of the following Venn diagrams best illustrates the relationship among the three classes: "Truck, Ship, Goods"? [2013]



Ans: C
Solution: Truck, Ship, Goods



68. If the first halves of the English alphabet series are written in reverse order, then which letter should be 8th letter to the left of 14th letter from the right end? [2014]
(A) E (B) G (C) F (D) I

Ans: D

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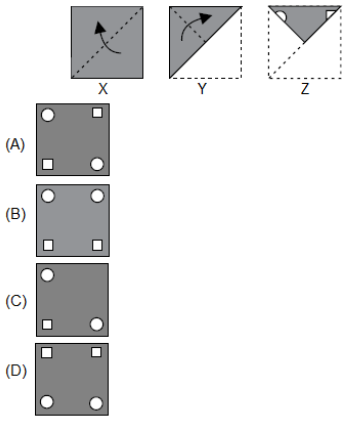
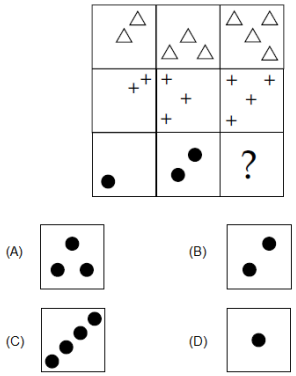
69. A set of three figures X, Y and Z showing a sequence of folding of a piece of paper is given. Fig (Z) shows the manner in which the folded paper has been cut. Select a figure from the options which would most closely resemble the unfolded form of Fig. (Z) [2015]



Ans: A
Solution: While unfolding the figure in option A will appear.

70. Select a figure from the options which will complete the given figure matrix. [2016]



Ans: A
Solution: Sequence given in figure matrix is 2, 3 and 4. Accordingly Option A (1, 2 and 3) is the correct answer.

71. If '>' denotes '+', '<' denotes '–', '+' denotes '÷', '^' denotes '×', '–' denotes '=', '×' denotes '>', and '=' denotes '<', then which of the following options is correct? [2012]

(A) $13 > 7 < 6 + 2 = 3^4$ (B) $28 + 4^2 = 6^4 + 2$
(C) $9 > 5 > 4 – 18 + 9 > 16$ (D) $9 < 3 < 2 > 1 \times 8^2$

Ans:
Solution: Using above signs, all the options except C none of the answer match with the given answer, Details as 9 & gt; 5 & gt; 4-18+9 & gt; 16 gives an answer that will match with the given answer
9 > 5 > 4-18+9 > 16
9+5+4=18÷9+16
18 = 18

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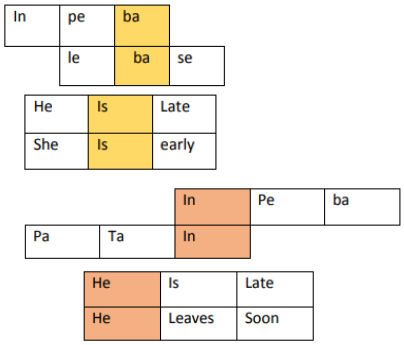
72. In a certain code language 'in pe ba' means 'he is late', 'le ba se' means 'she is early' and 'pa ta in' means 'he leaves soon'. Which word in that language means late? [2013]

(A) pe (B) in (C) ba (D) Data is inadequate

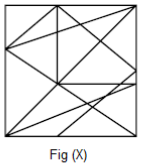
Ans: A

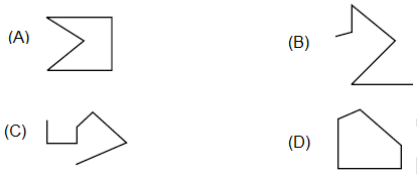
Solution:



Therefore, Pe implies late

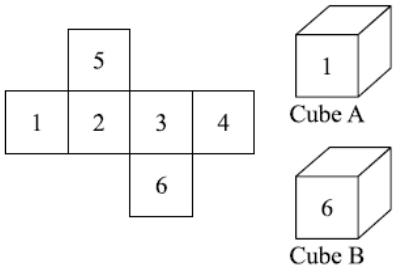
73. Which of the following shapes is exactly embedded in Fig.? (X)? [2014]





Ans: B

74. The figure below shows the net of both Cube A and Cube B. [2015]



Find the sum of the number opposite to 1on Cube A and the number opposite to 6 on Cube B.

(A) 9 (B) 8 (C) 7 (D) 6

Ans: B

Solution: Opposite of 1 will be 3 and opposite of 6 would be 5, hence the sum would be 5+3 = 8

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75. If a ⊗ b = $\frac{a+b}{2}$ and a ⊖ b = $\frac{2a+b}{3}$, then what is the value of (4 ⊗ 6) ⊖ (12 ⊗ 4)? [2016]

(A) 4 (B) 6 (C) 8 (D) 10

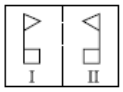
Ans: B
Solution: (4*6) - (12*4)
= (4+6/2) – (12+4/2)
= 5 – 8
= 2(5) + 8 / 3
= 10+8 / 3
= 18/3
= 6 so, option B is the correct answer.

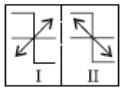
76. Which of the following options shows the mirror image of Fig.? (X), if mirror is placed vertically left. [2012]

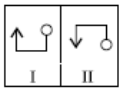
(A)
(B)
Fig.(X)
(c)
(D)

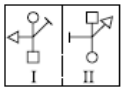
Ans: B
Solution: When mirror is kept vertically placed left then the image will be reverse as like option (B) Reflection of an original image is the image of mirror but everything is same except reversed.

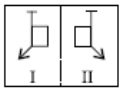
77. Select the pair that has a relationship similar to given pair. [2013]



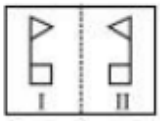
(A) 

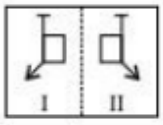
(B) 

(C) 

(D) 

Ans: D
Solution:



(D) 

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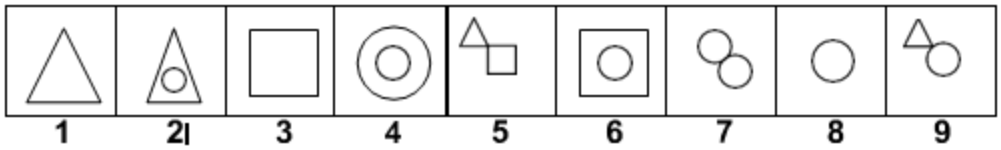
78. Group the given figures into three appropriate classes using each figure only once. [2012]



(A) 4, 7, 9; 2, 5, 8; 1, 3, 6 (B) 1, 3, 8; 2, 4, 6; 5, 7, 9
(C) 1, 4, 6; 2, 3, 7; 5, 8, 9 (D) 3, 5, 4; 1, 6, 9; 2, 7, 8

Ans: B
Solution: In the given figures 1, 3 and 8 are in same class because all figures have a one different geometric figure. The figures like 2, 4 and 6 are in same class because figures have one big and one small element which are placed inside this bigger element. Figures 5, 7 and 9 are in same classes and one element is attached with other different element. Hence option B is correct.

79. Select a figure from the options in which figure (X) is embedded as one of its part. [2013]

Figure (X)

(A)
(B)
(C)
(D)

Ans: D
Solution:

Figure (X)

(D)

80. Find the odd one out in the following anagrams. [2012]
(A) P E N O H (B) D R O I A (C) T S P O (D) G N D R E A

Ans: D
Solution: "P E N O H" letters can be rearranged as "PHONE" Similarly "D R O I A = RADIO", "TSPO = POST" and "G N D R E A = DANGER" Here RADIO, PHONE and POST are used for a communication, only word DANGER is mismatch. Then answer is Option D

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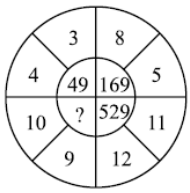
81. Which number will replace the question mark in number pattern? [2013]



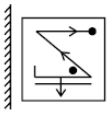
(A) 100 (B) 361 (C) 389 (D) 400

Ans: B
Solution: 4+3 = 7 then 7 x 7 = 49
8 + 5 = 13 then 13 x 13 = 169
11 + 12 = 23 then 23 x 23 = 529
10 + 9 = 19 then 19 x 19 = 361

82. How many such 3's are there in the following number sequence which are immediately preceded by an odd number and immediately followed by an even number? [2012]
5 3 8 9 4 3 7 2 3 8 1 3 8 4 2 3 5 7 3 4 2 3 6
(A) One (B) Two (C) Three (D) Four

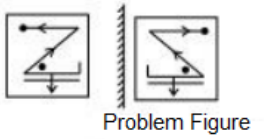
Ans: C
Solution: Option C, Here in the sequence, 5 3 8 9 4 3 7 2 3 8 1 3 8 4 2 3 5 7 3 4 2 3 6
So, we get three 3 that are immediately preceded by an odd number and immediately followed by an even number.

83. Select a figure from the options which is the mirror- image of the Problem Figure. [2013]


Problem Figure

(A)
(B)
(C)
(D)

Ans: A
Solution:

(A) 
Problem Figure

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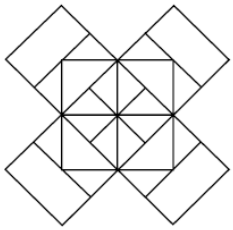
84. There are five pens 1, 2, 3, 4 and 5 of different colours, viz. Blue, Black, Maroon, Green and Red Pen number 3 is of Black colour and Pen number 5 is of Green colour. Which of the following pen is of Red colour? [2012]

(A) Number 1 (B) Number 2 (C) Number 3 (D) Data inadequate

Ans:
Solution: Five pens 1, 2, 3, 4 and 5 of different colors viz. Blue, Black, Maroon, Green and Red Given pen number 3 is of Black color and pen number 5 is of Green color here given Data is inadequate because using above data we could not say that which pen is of Red color.

85. Minimum number of straight lines required to form the given figure is _____. [2013]



(A) 22 (B) 20 (C) 18 (D) 24

Ans: B
Solution: There are 20 straight lines enough to draw this pattern.

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