

# FIITJEE INTERNAL TEST

## MOCK TEST - 1

for

## NTSE STAGE – I

(All Class X Batches)

### Mental Ability Test (MAT)

QP CODE:

Time: 120 Minutes

Maximum Marks: 100

Please read the instructions carefully.

#### INSTRUCTIONS

**A: General :**

1. Immediately fill in the particulars on this page of the Test Booklet with Blue/Black Ball point pen.
2. Use **Blue/Black Ball Point Pen only** for writing particulars on **Side-1** and **Side-2** of the Answer Sheet. **Use of pencil is strictly prohibited.**
3. Darken the appropriate bubbles with **HB Pencil** only.
4. Blank papers, clipboards, log tables, slide rules, calculators, cellular phones, pagers and electronic gadgets in any form are not allowed.
5. The answer sheet, a machine-gradable Objective Response Sheet (ORS) is provided separately.
6. Do not Tamper/mutilate the **ORS** or this booklet.
7. No additional sheets will be provided for rough work
8. On completion of this test, the candidate must hand over the Answer Sheet to the Invigilator on duty in the Room/Hall. **However, the candidates are allowed to take away this Test Booklet with them.**

**B: Questions paper format and Marking Scheme :**

1. The question paper consists of 100 questions.
2. For each question you will be **awarded 1 mark** if you darken the bubble corresponding to the correct answer and zero mark if no bubbles is darkened or your response is incorrect.

Enrollment No. :              Batch : \_\_\_\_\_

Name : \_\_\_\_\_

Candidate's Signature \_\_\_\_\_ Invigilator's Signature: \_\_\_\_\_

**Direction (Q.1 to Q.3):**

Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

1. 1, 2, 3, 6, 9, 18, ?, 54

(A) 27

(B) 36

(C) 45

(D) 39

1. A

Sol. The pattern is  $\times 2, \times \frac{3}{2}, \times 2, \times \frac{3}{2}, \times 2, \times \frac{3}{2}, \dots$ . So, missing term =  $18 \times \frac{3}{2} = 27$

2. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

5, 6, 9, 15, ?, 40

(A) 21

(B) 25

(C) 27

(D) 33

2. B

Sol. The pattern is + 1, + 3, + 6,....., i.e. + 1, + (1, + 2), + (1 + 2 + 3),.....So, missing term = 15 + (1 + 2 + 3 + 4) = 25.

3. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

WFB, TGD, QHG, ?

(A) NIJ

(B) NIK

(C) NJK

(D) OIK

3. B

Sol. 1<sup>st</sup> letter : W  $\xrightarrow{-3}$  T  $\xrightarrow{-3}$  Q  $\xrightarrow{-3}$  **N**

2<sup>nd</sup> letter : F  $\xrightarrow{+1}$  G  $\xrightarrow{+1}$  H  $\xrightarrow{+1}$  **I**

3<sup>rd</sup> letter : B  $\xrightarrow{+2}$  D  $\xrightarrow{+3}$  G  $\xrightarrow{+4}$  **K**

**Direction (Q.4 to Q.7):**

Study the following information to answer the given question.

In a certain code,

“her idea has merit” is written as “fo la bu na”,

“merit list has been displayed” is written as “jo ke la si na”,

“her name displayed there” is written as “ya si bu zo” and

“name in merit list” is written as “na ya go ke”.

4. What is the code for “idea” ?

- (A) fo  
(C) bu

- (B) la  
(D) na

4. A

Sol.

Word	Code
her	bu
idea	fo
has	la
merit	na
list	ke
been	jo
displayed	si
name	ya
there	zo
in	go

Study the following information to answer the given question.

In a certain code,

“her idea has merit” is written as “fo la bu na”,

“merit list has been displayed” is written as “jo ke la si na”,

“her name displayed there” is written as “ya si bu zo” and

“name in merit list” is written as “na ya go ke”.

5. Which of the following represents ‘name has been displayed’ ?

- (A) ya la ke si  
(C) si jo ke na

- (B) jo si ya la  
(D) bu ya ke la

5. B

Sol.

Word	Code
her	bu
idea	fo
has	la
merit	na
list	ke
been	jo
displayed	si
name	ya
there	zo
in	go

Study the following information to answer the given question.

In a certain code,

"her idea has merit" is written as "fo la bu na",

"merit list has been displayed" is written as "jo ke la si na",

"her name displayed there" is written as "ya si bu zo" and

"name in merit list" is written as "na ya go ke".

6. What does "zo" stand for ?

(A) there

(B) displayed

(C) name

(D) her

6. A

Sol.

Word	Code
her	bu
idea	fo
has	la
merit	na
list	ke
been	jo
displayed	si
name	ya
there	zo
in	go

Study the following information to answer the given question.

In a certain code,

"her idea has merit" is written as "fo la bu na",

"merit list has been displayed" is written as "jo ke la si na",

"her name displayed there" is written as "ya si bu zo" and

"name in merit list" is written as "na ya go ke".

7. Which of the following may represent 'her name is there' ?

(A) zo ya go wo

(B) bu ya zo go

(C) zo ya bu ke

(D) ya zo wo bu

7. D

Sol.

Word	Code
her	bu
idea	fo
has	la
merit	na
list	ke
been	jo
displayed	si
name	ya
there	zo
in	go

8. Nineteen students are standing in horizontal row from left to right. If all the odd numbered students in the row are shifted to successive odd-numbered positions, what will be the position of Gitika who was 9th from the left end in the row initially?

(A) 9th from the left end

(B) 8th from the right end

(C) 9th from the right end

(D) 8th from the left end

8. C

Sol. Initially, Gitika's rank from the left end = 9th.

So, Gitika's rank after shifting to successive odd-numbered = 9th from the right end

9. In 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.

\_ tu \_ rt \_ s \_ \_ usrtu \_

- (A) rtusru (B) rsutr  
(C) rsurtr (D) rsurts

9. D

Sol. The series rtus/rtus/rtus/rtus. Thus, the pattern 'rtus' is repeated.

10. A container contains 40 litres of milk. From this container 4 litres of milk was taken out and replaced by water. This process was repeated further two times. How much milk is now contained by the container?

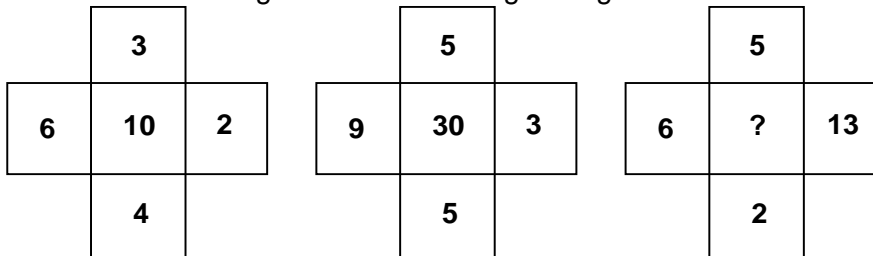
- (A) 26.34 litres (B) 27.36 litres  
(C) 28 litres (D) 29.16 litres

10. D

Sol. Amount of milk left after 3 operations =  $\left[40 \left(1 - \frac{4}{40}\right)^3\right]$  litres.

$$= \left(40 \times \frac{9}{10} \times \frac{9}{10} \times \frac{9}{10}\right) = 29.16 \text{ litres}$$

11. Find out the missing number from the given figures:



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

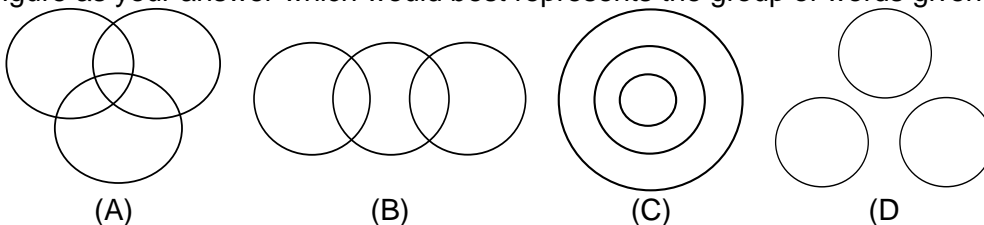
11. B

Sol. From figure 1  $\rightarrow (6 \times 3) - (4 \times 2) = 10$

Figure 2  $\rightarrow (9 \times 5) - (5 \times 3) = 30$

So,  $(6 \times 5) - (13 \times 2) = 4$

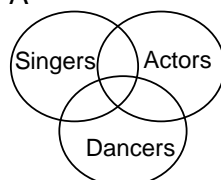
**Directions (Q.12 – Q. 13):** In this question, a group of words is given which can be represented by one of the four diagrams given below. Observe the diagrams carefully and mark the alphabet of the figure as your answer which would best represents the group of words given in the question.



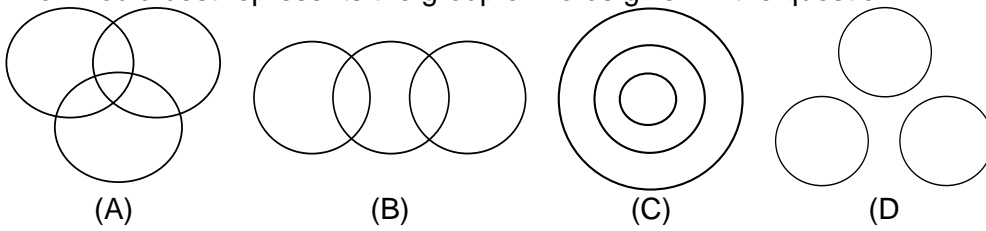
12. Singers, Dancers, Actors.

12. A

Sol.



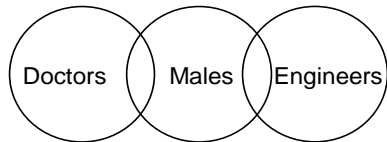
In this question, a group of words is given which can be represented by one of the four diagrams given below. Observe the diagrams carefully and mark the alphabet of the figure as your answer which would best represents the group of words given in the question.



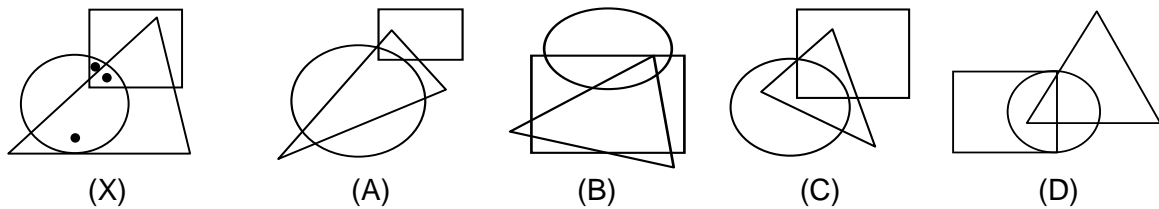
13. Males, Doctors, Engineers

13. B

Sol.

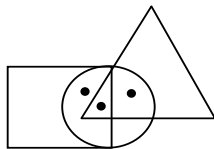


14. A dot is placed in the figure marked as (X). This figure is followed by four alternatives marked as (A), (B), (C) and (D). One out of these four options contain the common region to circle, square, triangle, similar to that of marked by dot in figure (X). Select the option.

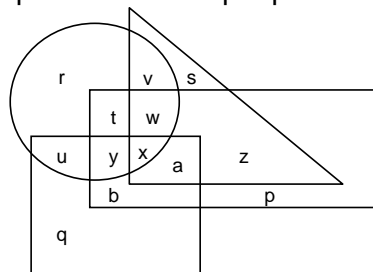


14. D

Sol.



**Directions (Q.15 – Q.16):** In the following diagram, the circle represents all the people who like Pepsi, the square represents all the people who like Coke, the triangle represents all the people who like Limca and the rectangle represents all the people who like Dew.



15. Which of the following represents the people who like both Pepsi and Coke?

(A) u, y, x

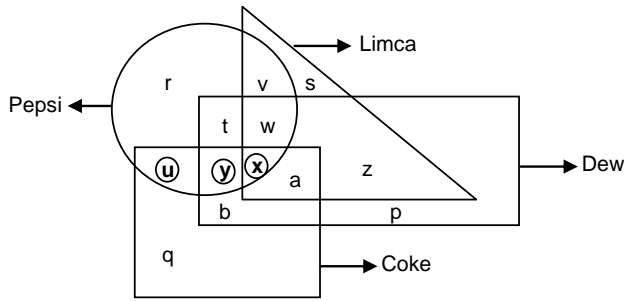
(B) u, t, w

(C) b, a, x

(D) t, y, b

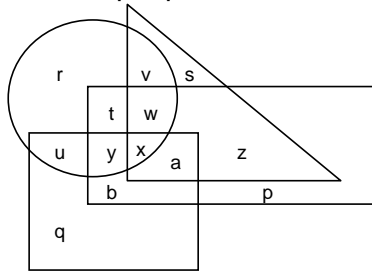
15. A

Sol.



Common part in circle and square is u, y, x.

16. In the following diagram, the circle represents all the people who like Pepsi, the square represents all the people who like Coke, the triangle represents all the people who like Limca and the rectangle represents all the people who like Dew.

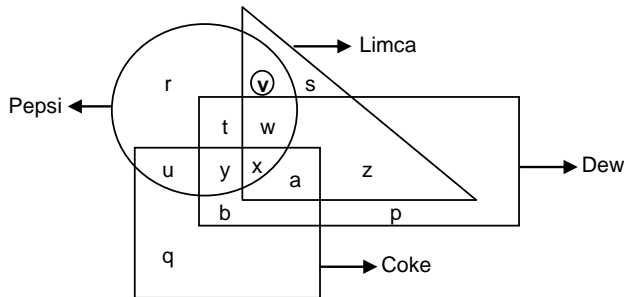


Which of the following represents the people who like both Pepsi and Limca but not any of other two?

- (A) y (B) v  
(C) u (D) b

16. B

Sol.



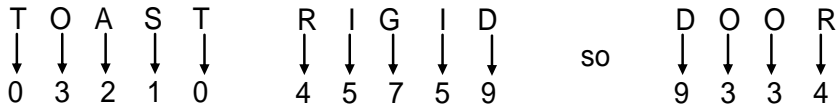
Common part in circle and triangle is v.

17. In a certain code language, "TOAST" is written as "03210" and "RIGID" is written as "45759". How is "DOOR" written in that code language?

- (A) 9331 (B) 9334  
(C) 3390 (D) 1314

17. B

Sol.



18. Arrange the given words in the sequence in which they occur in the dictionary.

- i. Permanence ii. Permanent  
iii. Permafrost iv. Permeability  
(A) ii, iii, iv, i (B) iii, ii, i, iv  
(C) iv, ii, i, iii (D) iii, i, ii, iv

18. D

Sol. Permafrost, Permanence, Permanent, Permeability.

19. The last digit of the number obtained by multiplying the numbers  $81 \times 82 \times 83 \times 84 \times 85 \times 86 \times 87 \times 88 \times 89$  will be  
 (A) 0 (B) 9  
 (C) 7 (D) 2

19. A

Sol. In this question, there is a pair of 5 and 2.  
 So, the answer will be 0.

20. Find the units digit of the expression  $55^{725} + 73^{5810} + 22^{853}$ .  
 (A) 4 (B) 0  
 (C) 6 (D) 5

20. C

Sol.  $55^{725} \rightarrow$  unit digit = 5  
 $73^{5810} \rightarrow$  unit digit =  $3^2 = 9$   
 $22^{853} \rightarrow$  unit digit = 2  
 $5 + 9 + 2 = 16$   
 So, unit digit is 6.

**Direction (Q.21 to Q.23):**

In question below a statement (or a passage) is followed by two assumptions numbered I and II. An assumption is something supposed or taken in for granted. You have to consider the statement and the following assumptions and then decide which of the assumptions is implicit in the statement. Give answer:

21. Statement : 'You are expected to be frank and objective while writing yourself appraisal report' – An institution for writing self appraisal report.  
 Assumptions :  
 I. Unless cautioned, people may tend to be little shy and less objective while writing their self appraisal report.  
 II. Every self appraisal report helps the person in his further development.  
 (A) if only assumption I is implicit.  
 (B) if only assumption II is implicit.  
 (C) if neither of the assumptions is implicit.  
 (D) if both the assumptions are implicit.

21. A

Sol. Only assumption I is implicit in the statement. The instruction was given on the assumption that people tend to be little shy and less objective while writing their self appraisal report.

22. In question below a statement (or a passage) is followed by two assumptions numbered I and II. An assumption is something supposed or taken in for granted. You have to consider the statement and the following assumptions and then decide which of the assumptions is implicit in the statement. Give answer:

Statement : Market trends are changing continuously and with increasing competitiveness, the consumers demands with respect to the prices and quality are gradually increasing.

Assumptions :

- I. Consumers did not care for the prices and quality earlier.  
 II. Market competitiveness is not favorable for the consumers.

- (A) if only assumption I is implicit.  
 (B) if only assumption II is implicit.  
 (C) if neither of the assumptions is implicit.  
 (D) if both the assumptions are implicit.

22. C



- Sol. Assumption I is not implicit. Consumers are paying mere attention to prices and quality product now-a-days does not mean that they were indifferent to these factors earlier. Assumption II is just the opposite of what is told in the statement. So it is also not implicit.
23. In question below a statement (or a passage) is followed by two assumptions numbered I and II. An assumption is something supposed or taken in for granted. You have to consider the statement and the following assumptions and then decide which of the assumptions is implicit in the statement. Give answer:

Statement : "But, out of A,B,C and D products, you buy 'B' which alone is based on the international technology" - A shopkeeper tells a customer.

Assumptions:

- I. The customers normally accept the recommendation of the shopkeeper.  
 II. Use of international technology is supposed to ensure better quality standards.

- (A) if only assumption I is implicit.  
 (B) if only assumption II is implicit.  
 (C) if neither of the assumptions is implicit.  
 (D) if both the assumptions are implicit.

23. D  
 Sol. Both the assumption I and II are implicit in the statement. Assumption II is clearly implicit in the statement. Assumption I is also implicit because the shopkeeper gives his suggestions on the assumption that the customer will consider it.

**Directions (Q.24 – Q.25):** In the following question, some of the letters/numbers are missing. Choose the correct alternative.

24. 

1	1	1
5	?	125
7	49	343

- (A) 50 (B) 25  
 (C) 625 (D) 250

24. B  
 Sol. In 1<sup>st</sup> row:

1, 1<sup>2</sup>, 1<sup>3</sup>

In 3<sup>rd</sup> row:

7, 7<sup>2</sup>, 7<sup>3</sup>

Similarly in 2<sup>nd</sup> row:

5, 5<sup>2</sup>, 5<sup>3</sup>

In the following question, some of the letters/numbers are missing. Choose the correct alternative.

25. 

A	D	G
E	H	K
I	?	O

- (A) J (B) K  
 (C) L (D) M

25. C  
 Sol. In 1<sup>st</sup> column:  
 A---+4-- -> E----+4--- -> I  
 In 3<sup>rd</sup> column:  
 G---+4-- -> K----+4--- -> O

Similarly in 2nd column:  
 D---+4-- -> H----+4--- -> L

26. Today is Monday. After 61 days, it will be:  
 (A) Thursday (B) Friday  
 (C) Saturday (D) Sunday

26. C

Sol. Each day of the week is repeated after 7 days.  
 So, after 63 days, it will be Monday.  
 After 61 days, it will be Saturday.

27. If Atul finds that he is twelfth from the right in a line of boys and fourth from the left, how many boys should be added to the line such that there are 28 boys in the line?  
 (A) 12 (B) 13  
 (C) 14 (D) 20

27. B

Sol. Clearly, number of boys in the line =  $(11 + 1 + 3) = 15$   
 $\therefore$  Number of boys to be added =  $(28 - 15) = 13$ .

28. In a class of 60, where girls are twice that of boys, Kamal ranked seventeenth from the top. If there are 9 girls ahead of Kamal, how many boys are after him in rank?  
 (A) 3 (B) 7  
 (C) 12 (D) 23

28. C

Sol. Let the number of boys be  $x$ .  
 Then, number of girls =  $2x$   
 $\therefore x + 2x = 60$  or  $3x = 60$  or  $x = 20$   
 So, number of boys = 20 and number of girls = 40  
 Number of students behind Kamal in rank =  $(60 - 17) = 43$   
 Number of girls ahead of Kamal in rank = 9  
 Number of girls behind Kamal in rank =  $(40 - 9) = 31$   
 $\therefore$  Number of boys behind Kamal in rank =  $(43 - 31) = 12$

**Directions (Q.29 – Q.33):**

Study the following information carefully to answer the following question:-

Five friends – A, B, C, D and E have different professions-Actor, Surfer, Boxer, Cyclist and Preacher. Each one likes different movies viz. The Dark Knight, Kill Bill, The Godfather, Matrix and Pulp fiction but not necessarily in the same order. C is a preacher but he doesn't like Kill Bill or Pulp fiction. Neither A nor E is a Cyclist. D, who is neither an Surfer nor a Cyclist likes The Godfather. The one who is a cyclist likes Matrix. D is not a boxer.

29. Who among the following likes Kill Bill?  
 (A) C (B) E  
 (C) A (D) Either A or E

29. D

Sol.

Name	Occupation	Movies
A	Boxer/Surfer	Pulp fiction/Kill Bill
B	Cyclist	Matrix
C	Preacher	The Dark Knight
D	Actor	The Godfather
E	Boxer/Surfer	Kill Bill/Pulp fiction

Study the following information carefully to answer the following question:-

Five friends – A, B, C, D and E have different professions-Actor, Surfer, Boxer, Cyclist and Preacher. Each one likes different movies viz. The Dark Knight, Kill Bill, The Godfather, Matrix and Pulp fiction but not necessarily in the same order. C is a preacher but he doesn't like Kill Bill or Pulp fiction. Neither A nor E is a Cyclist. D, who is neither an Surfer nor a Cyclist likes The Godfather. The one who is a cyclist likes Matrix. D is not a boxer.

30. Which of the following combination of person-occupation-movie is definitely false?

- (A) E-Surfer-Pulp fiction (B) A-Boxer-Kill Bill  
(C) D-Actor-The Godfather (D) A-Surfer-Matrix

30. D

Sol.

Name	Occupation	Movies
A	Boxer/Surfer	Pulp fiction/Kill Bill
B	Cyclist	Matrix
C	Preacher	The Dark Knight
D	Actor	The Godfather
E	Boxer/Surfer	Kill Bill/Pulp fiction

Study the following information carefully to answer the following question:-

Five friends – A, B, C, D and E have different professions-Actor, Surfer, Boxer, Cyclist and Preacher. Each one likes different movies viz. The Dark Knight, Kill Bill, The Godfather, Matrix and Pulp fiction but not necessarily in the same order. C is a preacher but he doesn't like Kill Bill or Pulp fiction. Neither A nor E is a Cyclist. D, who is neither an Surfer nor a Cyclist likes The Godfather. The one who is a cyclist likes Matrix. D is not a boxer.

31. Who among the following is a Cyclist?

- (A) A (B) B  
(C) D (D) Can't be determined

31. B

Sol.

Name	Occupation	Movies
A	Boxer/Surfer	Pulp fiction/Kill Bill
B	Cyclist	Matrix
C	Preacher	The Dark Knight
D	Actor	The Godfather
E	Boxer/Surfer	Kill Bill/Pulp fiction

Study the following information carefully to answer the following question:-

Five friends – A, B, C, D and E have different professions-Actor, Surfer, Boxer, Cyclist and Preacher. Each one likes different movies viz. The Dark Knight, Kill Bill, The Godfather, Matrix and Pulp fiction but not necessarily in the same order. C is a preacher but he doesn't like Kill Bill or Pulp fiction. Neither A nor E is a Cyclist. D, who is neither an Surfer nor a Cyclist likes The Godfather. The one who is a cyclist likes Matrix. D is not a boxer.

32. Which of the following combination of person-occupation-movie is definitely true?

- (A) D-Actor-Matrix (B) A-Surfer-Kill Bill  
(C) E-boxer-Pulp fiction (D) B-Cyclist-Matrix

32. D

Sol.

Name	Occupation	Movies
A	Boxer/Surfer	Pulp fiction/Kill Bill
B	Cyclist	Matrix
C	Preacher	The Dark Knight
D	Actor	The Godfather
E	Boxer/Surfer	Kill Bill/Pulp fiction

Study the following information carefully to answer the following question:-

Five friends – A, B, C, D and E have different professions-Actor, Surfer, Boxer, Cyclist and Preacher. Each one likes different movies viz. The Dark Knight, Kill Bill, The Godfather, Matrix and Pulp fiction but not necessarily in the same order. C is a preacher but he doesn't like Kill Bill or Pulp fiction. Neither A nor E is a Cyclist. D, who is neither an Surfer nor a Cyclist likes The Godfather. The one who is a cyclist likes Matrix. D is not a boxer.

33. C likes which of the following movies?

(A) The Dark Knight

(B) Matrix

(C) The Dark Knight or Matrix

(D) Kill Bill

33. A

Sol.

Name	Occupation	Movies
A	Boxer/Surfer	Pulp fiction/Kill Bill
B	Cyclist	Matrix
C	Preacher	The Dark Knight
D	Actor	The Godfather
E	Boxer/Surfer	Kill Bill/Pulp fiction

**Direction (Q.34 to Q.35):** Study the information given below carefully and answer the question that follow:

Facing South Dinesh walked 50 metres and after turning to his left he walk 30 metres. From this point, he turned towards North and walked for 30 metres more before reaching his friend's house. To return to his house he turned left and walked straight 30 metres.

34. How far is Dinesh's house from his starting point?

(A) 20 m

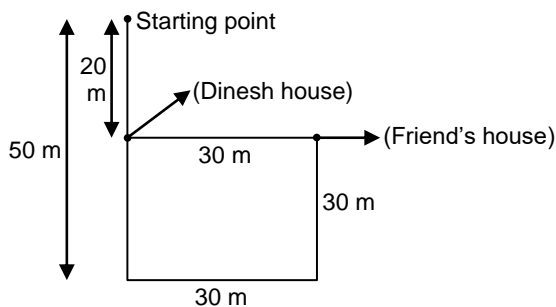
(B) 10 m

(C) 15 m

(D) 25 m

34. A

Sol.

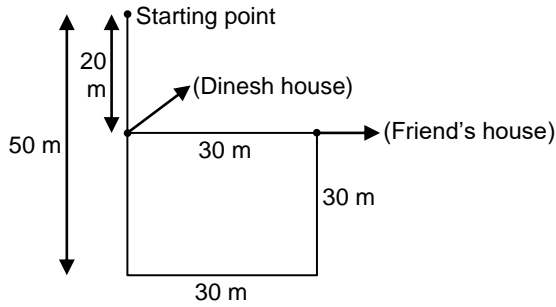


Study the information given below carefully and answer the question that follow:

Facing South Dinesh walked 50 metres and after turning to his left he walk 30 metres. From this point, he turned towards North and walked for 30 metres more before reaching his friend's house. To return to his house he turned left and walked straight 30 metres.

35. In which direction is his friend's house from Dinesh's house?  
 (A) East (B) West  
 (C) South (D) North

35. Sol.



**Direction (Q.36 to Q.39):** In the question below is given three or four statements followed by three or four conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

36. Statements: Some Blue are Red, Some Red are Black, No Black are grey.  
 Conclusions  
 I. Some Blue are not Grey.  
 II. All Red being grey is a possibility.  
 III. All Grey can be Red.  
 (A) Only III (B) Only II  
 (C) All follows except I (D) None follows

36. Sol.

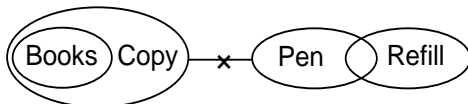


I - x  
 II - x  
 III - ✓

In the question below is given three or four statements followed by three or four conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

37. Statements: ALL Book is copy, No Copy is Pen, Some Pen are Refill.  
 Conclusions  
 I. Some Book are not Refill.  
 II. At least some copy are pen.  
 III. All Refill being book is a possibility.  
 (A) Only III (B) Only I  
 (C) Only II (D) None follows

37. Sol.



I - x  
 II - x  
 III - x

In the question below is given three or four statements followed by three or four conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

38. Statements: Some pdf are docs, No docs is a folder, Some folder are file.  
 Conclusions:  
 I. At least some Pdf are not Folder.  
 II. Some Folder are not Pdf.

III. Some file are not Docs.

(A) Only II

(B) Only III and II

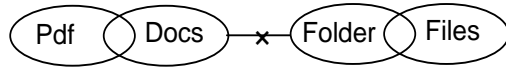
(C) Only I and III

(D) All of these

38.

C

Sol.



I - ✓

II - x

III - ✓

In the question below is given three or four statements followed by three or four conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

39.

Statements: All Bread are butter, All Butter are Yellow, No Pink is Yellow, Some Yellow are Black.

Conclusions

I. No black is pink.

II. Some Black are bread.

III. No black are bread.

(B) Only III

(A) Only I and II

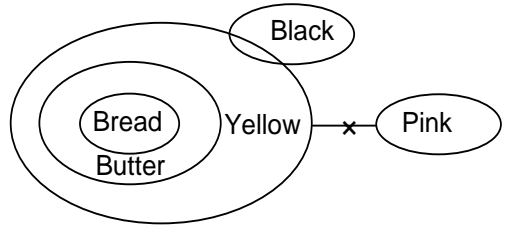
(D) Either II and III

(C) Only III and IV

39.

D

Sol.



I - x

II - x✓

III - x✓

} Either

40.

How many such pairs of letters are there in the word DEVIDED each of which has as many letters between them in the word as in the English alphabetical series?

(A) None

(B) One

(C) Two

(D) Three

40.

C

Sol.



41.

In a certain code PIPE is written as '5954' and REST is written as '8426'. How is SITE written in that code?

(A) 2468

(B) 9526

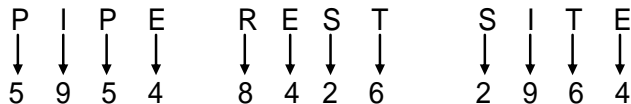
(C) 2964

(D) 2694

41.

C

Sol.



42.

In a certain code language FEMALES is written as OFHBUFN. How is ORDINAL written in that code language?

(A) NBPFSQJ

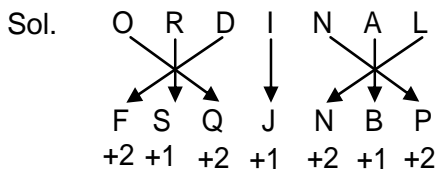
(B) PSEJOBM

(C) FSQJPBN

(D) FSQJNBP

42.

D



43. If red means orange, orange means blue, blue means green, green means black, black means white, and white means pink, then what is the colour of a crow?  
 (A) Orange (B) White  
 (C) Pink (D) Blue

43. B

Sol. Because black means white and colour of crow is black. So our answer is white.

**Direction (Q.44 to Q.45):** In this question, there is some relationship between the two terms to the left of :: and the same relationship holds between the two terms to its right. Find out the missing term.

44. Paw : Cat :: Hoof : ?

(A) Lamb (B) Elephant  
 (C) Loin (D) Horse

44. D

Sol. As cat has Paw similarly Horse has Hoof.

In this question, there is some relationship between the two terms to the left of :: and the same relationship holds between the two terms to its right. Find out the missing term.

45. Ornithologist : Bird :: Archeologist : ?

(A) Island (B) Mediators  
 (C) Archealogy (D) Aquatic

45. C

Sol. As Ornithologist is a specialist of Birds similarly Archeologist is a specialist of Archealogy.

46. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through:

(A) 145° (B) 150°  
 (C) 155° (D) 160°

46. C

Sol. Angle traced by hour hand in 12 hrs = 360°

$$\text{Angle traced by hour hand in 5 hrs 10 min. i.e., } \frac{31}{6} \text{ hrs} = \left( \frac{360}{12} \times \frac{31}{6} \right)^\circ = 155^\circ$$

47. How much does a watch lose per day, if its hands coincide every 64 minutes?

(A)  $32\frac{8}{11}$  min. (B)  $36\frac{5}{11}$  min.  
 (C) 90 min. (D) 96 min.

47. A

Sol. 55 min. spaces are covered in 60 min.

$$60 \text{ min. spaces are covered in } \left( \frac{60}{55} \times 60 \right) \text{ min.} = 65\frac{5}{11} \text{ min.}$$

$$\text{Loss in 64 min.} = \left( 65\frac{5}{11} - 64 \right) = \frac{16}{11} \text{ min.}$$

$$\text{Loss in 24 hrs} = \left( \frac{16}{11} \times \frac{1}{64} \times 24 \times 60 \right) \text{ min} = 32\frac{8}{11} \text{ min.}$$

48. On what dates of April, 2001 did Wednesday fall?

(A) 1<sup>st</sup>, 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup>, 29<sup>th</sup> (B) 2<sup>nd</sup>, 9<sup>th</sup>, 16<sup>th</sup>, 23<sup>rd</sup>, 30<sup>th</sup>

(C) 3<sup>rd</sup>, 10<sup>th</sup>, 17<sup>th</sup>, 24<sup>th</sup> (D) 4<sup>th</sup>, 11<sup>th</sup>, 18<sup>th</sup>, 25<sup>th</sup>

48. D

Sol. We shall find the day on 1st April, 2001.  
 1st April, 2001 = (2000 years + Period from 1.1.2001 to 1.4.2001)  
 Odd days in 1600 years = 0  
 Odd days in 400 years = 0  
 Jan. Feb. March April  
 $\therefore (31 + 28 + 31 + 1) = 91$  days = 0 odd days.  
 Total number of odd days =  $(0 + 0 + 0) = 0$   
 $\therefore$  On 1<sup>st</sup> April, 2001 it was Sunday.  
 $\therefore$  In April, 2001 Wednesday falls on 4<sup>th</sup>, 11<sup>th</sup>, 18<sup>th</sup> and 25<sup>th</sup>.

49. The last day of a century cannot be  
 (A) Monday (B) Tuesday  
 (C) Wednesday (D) Friday

49. B

Sol. 100 years contain 5 odd days.  
 Last day of 1<sup>st</sup> century is Friday.  
 200 years contain  $(5 \times 2) = 3$  odd days.  
 Last day of 2<sup>nd</sup> century is Wednesday.  
 300 years contain  $(5 \times 3) = 15 = 1$  odd day.  
 Last day of 3<sup>rd</sup> century is Monday.  
 400 years contain 0 odd day.  
 Last day of 4<sup>th</sup> century is Sunday.  
 This cycle is repeated.  
 Last day of a century cannot be Tuesday or Thursday or Saturday.

50. The calendar for the year 1892 will be the same for the year:  
 (A) 1896 (B) 1900  
 (C) 1904 (D) 1908

50. C

Sol. Count the number of odd days from the year 1892 onwards

Year	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	Total
Odd Days	2	1	1	1	2	1	1	1	1	1	1	1	14

Sum of 14 odd days = 0 odd day  
 So calendar for the year 1904 will be the same as for the year 1892

51. How many bricks, each measuring 25 cm x 11.25 cm x 6 cm, will be needed to build a wall of 8 m x 6 m x 22.5 cm?  
 (A) 5600 (B) 6000  
 (C) 6400 (D) 7200

51. C

Sol. Number of bricks =  $\frac{\text{volume of the wall}}{\text{volume of 1 brick}} = \left( \frac{800 \times 600 \times 22.5}{25 \times 11.25 \times 6} \right) = 6400$

**Directions (Q.52 to Q.56):** The following question are based on the information given below:

A cuboid shaped wooden block has 6 cm length, 4 cm breadth and 1 cm height.  
 Two faces measuring 4 cm x 1 cm are coloured in black.  
 Two faces measuring 6 cm x 1 cm are coloured in red.  
 Two faces measuring 6 cm x 4 cm are coloured in green.  
 The block is divided into 6 equal cubes of side 1 cm (from 6 cm side), 4 equal cubes of side 1 cm (from 4 cm side).

52. How many cubes having red, green and black colours on at least one side of the cube will be formed?  
 (A) 16 (B) 12

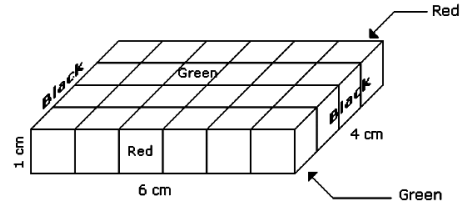


(C) 10

(D) 4

52. D

Sol. Such cubes are related to the corners of the cuboid.  
Since the number of corners of the cuboid is 4.  
Hence, the number of such small cubes is 4.



The following question are based on the information given below:

A cuboid shaped wooden block has 6 cm length, 4 cm breadth and 1 cm height.

Two faces measuring 4 cm x 1 cm are coloured in black.

Two faces measuring 6 cm x 1 cm are coloured in red.

Two faces measuring 6 cm x 4 cm are coloured in green.

The block is divided into 6 equal cubes of side 1 cm (from 6 cm side), 4 equal cubes of side 1 cm (from 4 cm side).

53. How many small cubes will be formed?

(A) 6

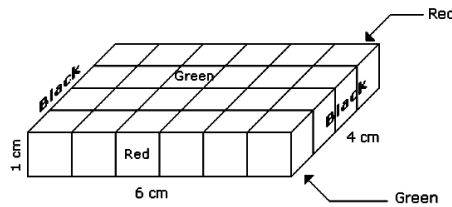
(B) 12

(C) 16

(D) 24

53. D

Sol. Number of small cubes =  $l \times b \times h = 6 \times 4 \times 1 = 24$



The following question are based on the information given below:

A cuboid shaped wooden block has 6 cm length, 4 cm breadth and 1 cm height.

Two faces measuring 4 cm x 1 cm are coloured in black.

Two faces measuring 6 cm x 1 cm are coloured in red.

Two faces measuring 6 cm x 4 cm are coloured in green.

The block is divided into 6 equal cubes of side 1 cm (from 6 cm side), 4 equal cubes of side 1 cm (from 4 cm side).

54. How many cubes will have 4 coloured sides and two non-coloured sides ?

(A) 8

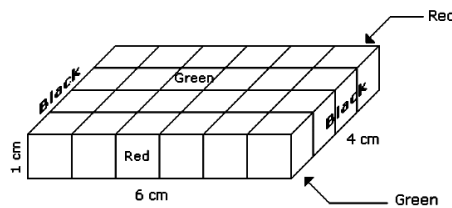
(B) 4

(C) 16

(D) 10

54. B

Sol. Only 4 cubes situated at the corners of the cuboid will have 4 coloured and 2 non-coloured sides.



The following question are based on the information given below:

A cuboid shaped wooden block has 6 cm length, 4 cm breadth and 1 cm height.

Two faces measuring 4 cm x 1 cm are coloured in black.

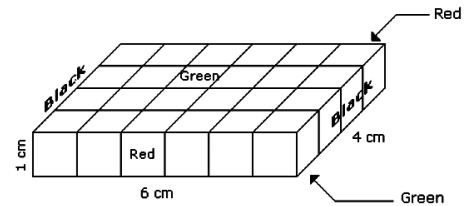
Two faces measuring 6 cm x 1 cm are coloured in red.

Two faces measuring 6 cm x 4 cm are coloured in green.

The block is divided into 6 equal cubes of side 1 cm (from 6 cm side), 4 equal cubes of side 1 cm (from 4 cm side).

55. How many cubes will have green colour on two sides and rest of the four sides having no colour?  
 (A) 12 (B) 10  
 (C) 8 (D) 4

55. C  
 Sol. There are 16 small cubes attached to the outer walls of the cuboid.  
 Therefore remaining inner small cubes will be the cubes having two sides green coloured. So the required number =  $24 - 16 = 8$



The following question are based on the information given below:

A cuboid shaped wooden block has 6 cm length, 4 cm breadth and 1 cm height.

Two faces measuring 4 cm x 1 cm are coloured in black.

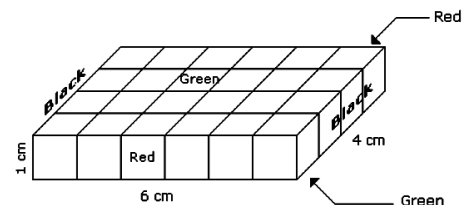
Two faces measuring 6 cm x 1 cm are coloured in red.

Two faces measuring 6 cm x 4 cm are coloured in green.

The block is divided into 6 equal cubes of side 1 cm (from 6 cm side), 4 equal cubes of side 1 cm (from 4 cm side).

56. How many cubes will remain if the cubes having only black and green coloured are removed?  
 (A) 4 (B) 16  
 (C) 12 (D) 20

56. D  
 Sol. Number of small cubes which are Black and Green is 4 in all.  
 Hence, the number of remaining cubes are =  $24 - 4 = 20$



57. I have a few sweets to be distributed. If I keep 2, 3 or 4 in a pack, I am left with one sweet. If I keep 5 in a pack, I am left with none. What is the minimum number of sweets I have to pack and distribute?  
 (A) 25 (B) 37  
 (C) 54 (D) 65

57. A  
 Sol. The required number would be such that it leaves a remainder of 1 when divided by 2, 3 or 4 and no remainder when divided by 5. Such a number is 25.

58. In a row at a bus stop, Amit is 7th from the left and Prakash is 9th from the right. Both of them interchange their positions and thus Amit becomes 11th from the left. How many people are there in that row?  
 (A) 18 (B) 19  
 (C) 21 (D) 20

58. B  
 Sol. Before Interchanging:  
 Amit's rank from the left end = 7<sup>th</sup>  
 Prakash's rank from the right end = 9<sup>th</sup>  
 After Interchanging:  
 Amit's rank from the left end = 11<sup>th</sup>  
 Prakash's initial rank from the right end = 9<sup>th</sup>  
 So, total no. of people =  $(11 + 9) - 1 = 19$

59. Pointing towards a girl, Abhisek says, "This girl is the daughter of only a child of my father." What is the relation of Abhisek's wife to that girl?  
 (A) Daughter (B) Mother  
 (C) Aunt (D) Sister

59. B

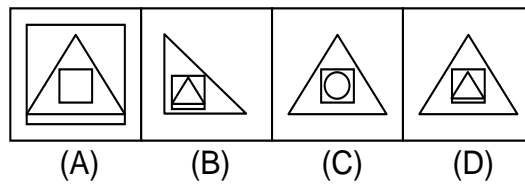
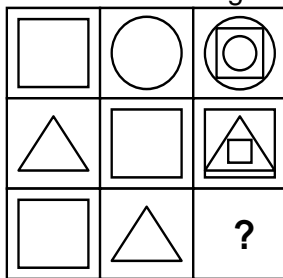
Sol. Only the child of my father means 'Abhisek' himself. This means the girl is the daughter of Abhisek. Hence, Abhisek's wife is the mother of the girl.

60. Pointing to Varman, Madhav said, "I am the only son of one of the sons of his father." How is Varman related to Madhav?  
 (A) Nephew (B) Uncle  
 (C) Father or Uncle (D) Father

60. C

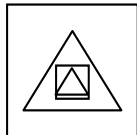
Sol. Madhav is the only son of one of the sons of Varman's father → Either Varman is the father or uncle of Madhav.

61. Select a suitable figure from the four alternatives that would complete the figure matrix.



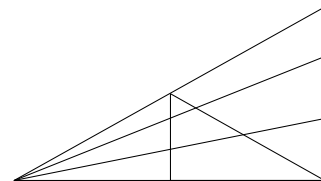
61. D

Sol.



In each row, the second figure forms the innermost and the outermost elements of the third figure and the first figure forms the middle element of the third figure.

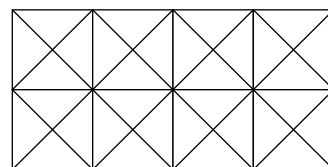
62. Count the total number of triangles in the given figure:  
 (A) 20  
 (B) 22  
 (C) 24  
 (D) 26



62. C

Sol. By observation.

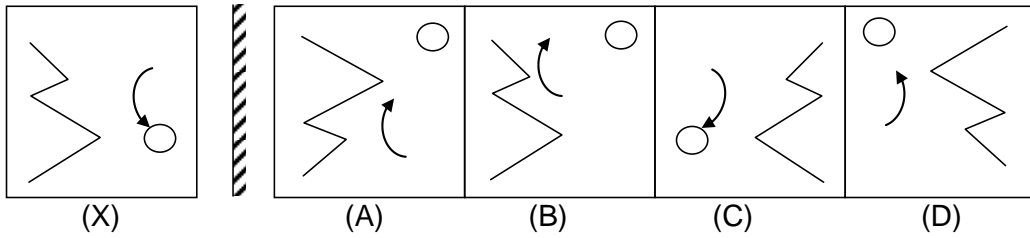
63. Count the total number of squares in the given figure:  
 (A) 23  
 (B) 24  
 (C) 25  
 (D) 26



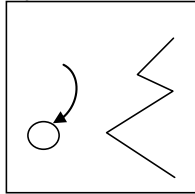
63. B

Sol. By observation.

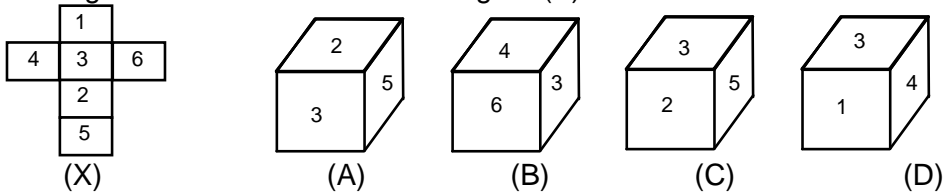
64. Choose the correct mirror – image of the figure (X) from amongst four alternatives (A), (B), (C) and (D), given along with it.



64. C  
Sol. By observation.



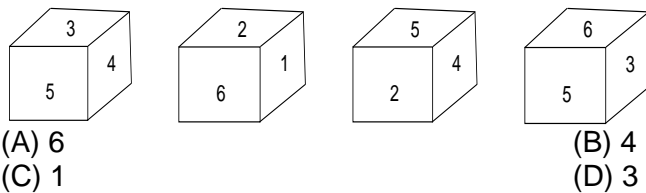
65. The figure (X) given below is the unfolded position of a cubical dice. In each of the following questions this unfolded figure is followed by four different figures of dice. You have to select the figure which is identical to the figure (X).



65. D  
Sol. 1 opposite → 2  
3 opposite → 5  
4 opposite → 6

So, only option (D) is correct.

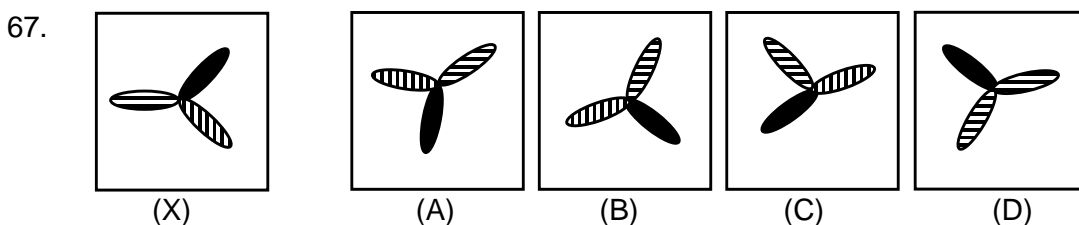
66. Four position of the same dice have been shown. You have to see these figures and select the number opposite to 5?



66. C  
Sol. 2 opposite → 3  
5 opposite → 1  
6 opposite → 4

So, the number opposite to 5 is 1.

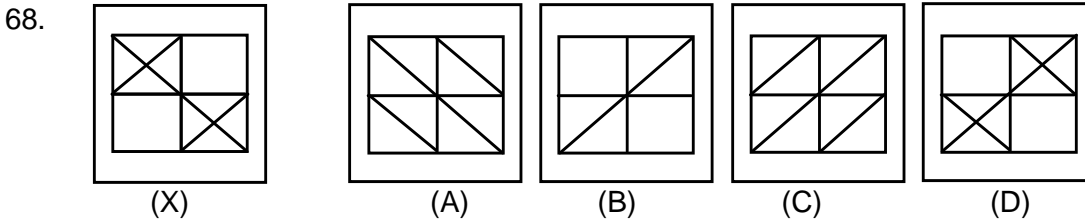
**Directions (Q.67 – Q.68):** In the following question, choose the correct mirror – image of the figure (X) from amongst four alternatives (A), (B), (C) and (D), given along with it.



67. D

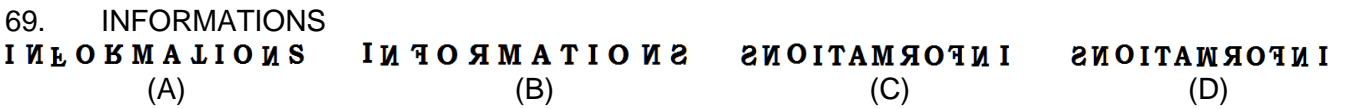
Sol. By observation.

In the following question, choose the correct mirror – image of the figure (X) from amongst four alternatives (A), (B), (C) and (D), given along with it.



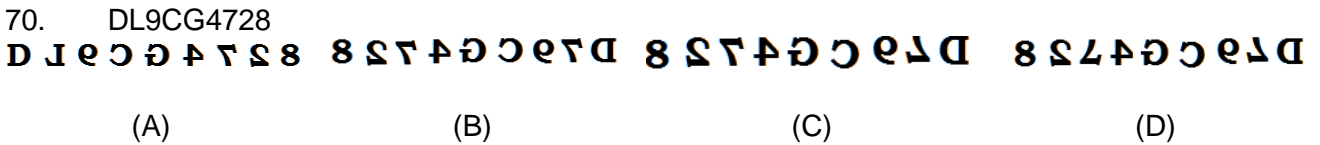
68. **D**  
Sol. By observation.

**Directions (Q.69 – Q.70):** In the following question four alternatives are given which follow a Word marked as questions (A), (B), (C) and (D) so on you have to select an alternative which exactly matches with the mirror image of the letter / number / word / figure in questions.



69. **C**  
Sol. By observation.

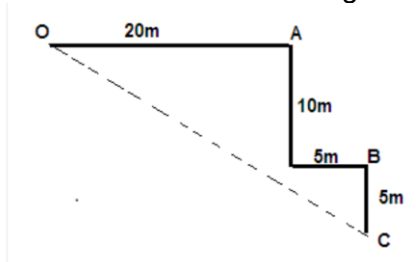
In the following question four alternatives are given which follow a Word marked as questions (A), (B), (C) and (D) so on you have to select an alternative which exactly matches with the mirror image of the letter / number / word / figure in questions.



70. **C**  
Sol. By observation.

71. Sonam starts from a point walks 20 m towards East, turns towards her right and walks 10 m, then turns left walks 5m. Then turns towards her right and walks 5m more. In which direction is she now from the starting point?  
 (A) North (B) South-East  
 (C) South (D) West

71. **B**  
Sol. Sonam's direction shown in figure below:



Now, it is obvious that Sonam is in South-East direction.

72. Find the odd word from the given alternatives.  
 (A) Throat (B) Eye  
 (C) Ear (D) Skin

72. **A**  
Sol. Except throat, all are sense org

73. Find the missing term?  
 11529 : 72135 :: 152943 : ?

- (A) 163044 (B) 620348  
 (C) 213549 (D) 203448

73. C

Sol. The addition of the digits  $11529 = 1 + 1 + 5 + 2 + 9 = 18$ ,  
 $72135 = 7 + 2 + 1 + 3 + 5 = 18$   
 $152943 = 1 + 5 + 2 + 9 + 4 + 3 = 24$ .  
 Similarly, the addition of the digits 213549 will be  
 $= 2 + 1 + 3 + 5 + 4 + 9 = 24$

74. Find the odd letters from the given alternatives.

- (A) ABBC (B) PQQR  
 (C) WYYZ (D) KLLM

74. C

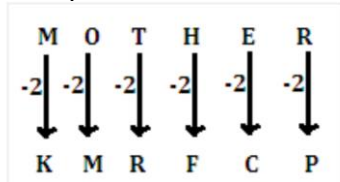
Sol. Except WYYZ, pattern follow by all is +1,+0,+1

75. If MOTHER is coded as KMRFCP, then HOUSE is coded as—

- (A) FMRPC (B) GNSQD  
 (C) GNRQD (D) FMSQC

75. D

Sol. Same pattern follow in HOUSE.



76. Find the odd letters from the given alternatives

- (A) M N O M (B) B D C B  
 (C) X Z Y X (D) P R Q P

76. A

Sol. Except MNOM, All follow a pattern of +2,-1,-1.

77. Rajiv is the brother of Sonia. Sunil is the son of Sonia's sister Hakarun. Rajiv's relationship with Sunil?

- (A) uncle (B) son  
 (C) brother (D) Father

77. A

Sol.

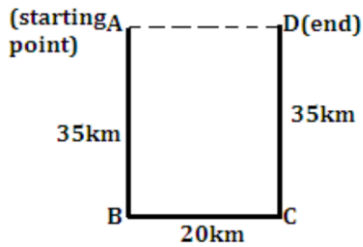


78. Rita travelled 35 Km from a point towards South and then turned left and travelled 20 Km and finally turned left again and travelled 35 Km. In which direction is she from the starting point?

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

78. A

Sol. D is in east direction from A(starting point).



79. Arrange the following words as per order in the dictionary.

- |               |               |
|---------------|---------------|
| 1. Launch     | 2. Laugh      |
| 3. Lattice    | 4. Latent     |
| 5. Latitude   |               |
| (A) 4,5,3,2,1 | (B) 4,3,5,1,2 |
| (C) 4,5,1,2,3 | (D) 4,5,1,3,2 |

79. A

Sol. Order according to dictionary:

4. Latent, 5. Latitude, 3. Lattice, 2. Laugh, 1. Launch

80. If 'ski rps tri' stands for 'nice Sunday morning', 'teh sti rps' stands for 'every Tuesday morning' and 'ski ptr qlm' stands for 'nice market place', which word stands for 'Sunday'?

- |         |         |
|---------|---------|
| (A) ski | (B) rps |
| (C) tri | (D) qlm |

80. C

Sol. 'ski rps tri' -> 'nice Sunday morning' .....(i)

'teh sti rps' -> 'every Tuesday morning' .....(ii)

'ski ptr qlm' -> 'nice market place' .....(iii)

From (i) & (ii) we get 'rps' stands for 'morning'.

From (i) & (iii) we get 'ski' stands for 'nice'.

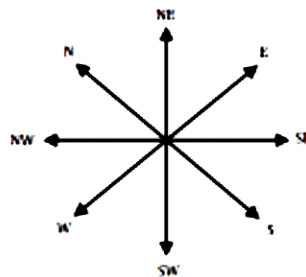
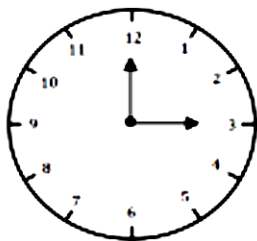
Thus, in (i) statement, 'tri' stands for 'Sunday'.

81. It is 3 o'clock in a watch. If the minute hand points towards the North-east, then the hour hand will point towards the

- |                |                |
|----------------|----------------|
| (A) South      | (B) South-west |
| (C) North-west | (D) South-east |

81. D

Sol. Clearly, the hour hand points towards South-east.



82. At a college party 5 girls are sitting in a row. Parul is to the left of Manisha and to the right of Jasmine. Rishika is sitting to the right of Neha, but to the left of Jasmine. Who is sitting in the middle?

- |             |             |
|-------------|-------------|
| (A) Jasmine | (B) Rishika |
| (C) Parul   | (D) Manisha |

82. A

Sol. Sitting order:

Neha, Rishika, Jasmine, Parul, Manisha

83. D the son-in-law of B and brother-in-law of A who is the brother of C. How is A related to B?

- (A) Brother (B) Son  
(C) Father (D) Data inadequate

83. B

Sol. D is the son-in-law of B and brother-in-law of A. This means that B is the father/mother of D's wife, and A is the brother of D's wife. Thus, A is B's son.

84. If 'x' means addition, '-' means division, '÷' means subtraction and '+' means multiplication, then which of the equations is correct?

- (A)  $16 \times 5 \div 10 + 4 - 3 = 19$  (B)  $16 + 5 \div 10 \times 4 - 3 = 9$   
(C)  $16 + 5 - 10 \times 4 \div 3 = 9$  (D)  $16 - 5 \times 10 \div 4 + 3 = 12$

84. C

Sol.  $16 + 5 - 10 \times 4 \div 3 = 9$

After changing sign:  
 $= 16 \times 5 \div 10 + 4 - 3$   
 $= 9$

85. If '-' means 'x', 'x' means '+', '+' means '÷' and '÷' means '-', then what will be the value of  $40 \times 12 + 3 - 6 \div 60 = ?$

- (A) 4 (B) 7  
(C) 16 (D) 44

85. A

Sol.  $40 \times 12 + 3 - 6 \div 60 = ?$

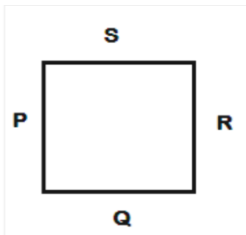
After changing sign:  
 $40 + 12 \div 3 \times 6 - 60$   
 $40 + 24 - 60$   
 $4$

86. P, Q, R and S are playing a game of carom. P, R and S, Q are partners. 'S' is to the right of 'R'. If 'R' is facing West, then 'Q' is facing which direction?

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

86. A

Sol.



87. Among five students M is heavier than K and T. B is lighter than T and P. K is not the lightest. Who among them is the lightest?

- (A) K (B) B  
(C) T (D) P

87. B

Sol. According to the given information,  
we get  $M > K$ ,  $M > T > B$ ,  $P > B$   
Now, it is obvious that B is the lightest.

88. Sudhhu is as much older than Kokila as he is younger than Praveen. Nitin is as old as Kokila. Which of the following statements is wrong?

- (A) Kokila is younger than Praveen (B) Nitin is younger than Praveen  
(C) Sudhhu is older than Nitin (D) Praveen is not the oldest

88. D

Sol. In terms of age, we have:

$Kokila < Sudhhu$ ,  $Sudhhu < Praveen$ ,  $Nitin = Kokila$

So, the sequence becomes :  $Nitin = Kokila < Sudhhu < Praveen$

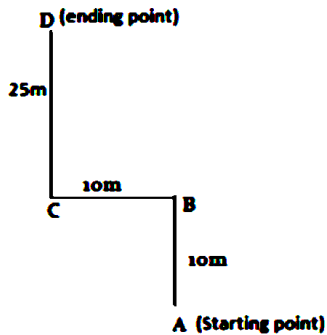


Clearly, Praveen is the oldest

89. Facing the East, Rahul turned left and walked 10m, then he turned to his left again and walked 10m. He then turned towards his right and went straight to cover 25m. In which direction is he from his starting point?  
 (A) North-West (B) North-East  
 (C) South-West (D) South-East

89. A

Sol.



90. Five girls are sitting in a row. Rashi is not adjacent to Sulekha or Abha. Anuradha is not adjacent to Sulekha. Rashi is adjacent to Monika. Monika is at the middle in the row. Then, Anuradha is adjacent to whom out of the following?  
 (A) Rashi (B) Sulekha  
 (C) Abha (D) Monika

90. A

Sol. Clearly, the order is: Anuradha, Rashi, Monika, Sulekha, Abha. Anuradha is adjacent to Rashi.

91. Three positions of a cube are as shown below :



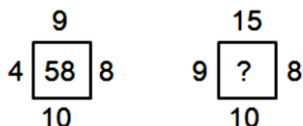
The figure on the face opposite the triangle is the :

- (A) pentagon (B) circle  
 (C) question mark (D) rectangle

91. C

Sol. Adjacent to triangle are circle, cross, rectangle and pentagon. So the remaining "question mark" will be opposite to triangle.

92. Find out the missing number from the alternatives given below.



- (A) 57 (B) 90  
 (C) 78 (D) 53

92. C

Sol. In figure (A),  $(9 \times 10) - (4 \times 8) = 58$   
 In figure (B), missing number  
 $= (15 \times 10) - (9 \times 8) = 150 - 72 = 78$

93. Avinash correctly remembers that Ishita's birthday is before Friday but after Tuesday. Deepak correctly remembers that Ishita's birthday is after Wednesday but before Saturday. On which of the following days does Ishita's birthday definitely fall?  
 (A) Monday (B) Tuesday  
 (C) Wednesday (D) Thursday
93. D
- Sol. According to Avinash, Ishita's birthday falls on Wed or Thu ...(i)  
 According to Deepak, Ishita's birthday falls on Thu or Fri ...(ii)

From (i) and (ii), Ishita's birthday falls on Thursday.

**Directions (Q.94 – Q.95):**

Seven boys P, Q, R, S, T, U and V are stand in a straight line as follows:

- (i) R is standing between P and V.
- (ii) Q is standing to the left of T.
- (iii) V is standing between R and T.
- (iv) U at the extreme right position.

94. Who is standing exactly in the middle?  
 (A) R (B) P  
 (C) T (D) S

94. A
- Sol. The sequence is  
 Q,T,V,R,P,S,U  
 R is exactly in the middle.

Seven boys P, Q, R, S, T, U and V are stand in a straight line as follows:

- (i) R is standing between P and V.
- (ii) Q is standing to the left of T.
- (iii) V is standing between R and T.
- (iv) U at the extreme right position.

95. Who is standing the extreme left?  
 (A) U (B) R  
 (C) Q (D) T

95. C
- Sol. The sequence is  
 Q,T,V,R,P,S,U  
 Q is to the extreme left.

**Directions (Q.96 – Q.100):**

Study the following information to answer the given question:

Eight people are sitting in two parallel rows containing four people each, in such a way that there is an equal distance between adjacent persons. In Row – 1 P, Q, R and S are seated (but not necessarily in the same order) and all of them facing South. In Row – 2 A, B, C and D are seated (but not necessarily in the same order) and all of them facing North. Therefore in the given seating arrangement each member seating in the row faces another member of the other row.

R sits second to the right of P. A is an immediate neighbour of the person who faces R. Q sits second to left of the person who faces A. Only one person sits between B and C. C does not face P. C does not sit any extreme ends of the line.

96. Four of the five are alike in a certain way based on the given seating arrangement and thus form a group. Which is the one that does not belong to that group?  
 (A) A (B) P  
 (C) R (D) B

96. C

Sol. Row – 1 S R Q P  
 Row – 2 A C D B

Study the following information to answer the given question:

Eight people are sitting in two parallel rows containing four people each, in such a way that there is an equal distance between adjacent persons. In Row – 1 P, Q, R and S are seated (but not necessarily in the same order) and all of them facing South. In Row – 2 A, B, C and D are seated (but not necessarily in the same order) and all of them facing North. Therefore in the given seating arrangement each member seating in the row faces another member of the other row.

R sits second to the right of P. A is an immediate neighbour of the person who faces R. Q sits second to left of the person who faces A. Only one person sits between B and C. C does not face P. C does not sit any extreme ends of the line.

97. Who amongst the following faces B?  
 (A) P (B) Q  
 (C) R (D) S

97. A

Sol. Row – 1 S R Q P  
 Row – 2 A C D B

Study the following information to answer the given question:

Eight people are sitting in two parallel rows containing four people each, in such a way that there is an equal distance between adjacent persons. In Row – 1 P, Q, R and S are seated (but not necessarily in the same order) and all of them facing South. In Row – 2 A, B, C and D are seated (but not necessarily in the same order) and all of them facing North. Therefore in the given seating arrangement each member seating in the row faces another member of the other row.

R sits second to the right of P. A is an immediate neighbour of the person who faces R. Q sits second to left of the person who faces A. Only one person sits between B and C. C does not face P. C does not sit any extreme ends of the line.

98. Which of the following true regarding S?  
 (A) S sits exactly between R and P (B) S sits second to the left of Q  
 (C) P is an immediate neighbour of S (D) None of above

98. D

Sol. Row – 1 S R Q P  
 Row – 2 A C D B

Study the following information to answer the given question:

Eight people are sitting in two parallel rows containing four people each, in such a way that there is an equal distance between adjacent persons. In Row – 1 P, Q, R and S are seated (but not necessarily in the same order) and all of them facing South. In Row – 2 A, B, C and D are seated (but not necessarily in the same order) and all of them facing North. Therefore in the given seating arrangement each member seating in the row faces another member of the other row.

R sits second to the right of P. A is an immediate neighbour of the person who faces R. Q sits second to left of the person who faces A. Only one person sits between B and C. C does not face P. C does not sit any extreme ends of the line.

99. Who amongst the following faces Q?  
 (A) A (B) B  
 (C) C (D) D

99. D  
 Sol. Row – 1 S R Q P  
 Row – 2 A C D B

Study the following information to answer the given question:

Eight people are sitting in two parallel rows containing four people each, in such a way that there is an equal distance between adjacent persons. In Row – 1 P, Q, R and S are seated (but not necessarily in the same order) and all of them facing South. In Row – 2 A, B, C and D are seated (but not necessarily in the same order) and all of them facing North. Therefore in the given seating arrangement each member seating in the row faces another member of the other row.

R sits second to the right of P. A is an immediate neighbour of the person who faces R. Q sits second to left of the person who faces A. Only one person sits between B and C. C does not face P. C does not sit any extreme ends of the line.

100. Who amongst the following faces the person who sits exactly between B and C?  
 (A) P (B) Q  
 (C) R (D) S

100. B  
 Sol. Row – 1 S R Q P  
 Row – 2 A C D B