

Assignment -1

Directions (1-5): Study the following information carefully and answer the questions accordingly.
Nine people are born in nine different years i.e. 1951, 1957, 1966, 1976, 1986, 1995, 1999, 2001, and 2006 but not necessarily in the same order. The age is calculated according to the year 2020. The sum of the digits of M's age is more than 9. Three people are born between W and M. B is born immediately after W. Two people are born between Q and B. P is born after Q and before N. Three people are born between O and Q. The age of O is not a multiple of 7. The difference between the ages of O and K is a multiple of 11. The age of D is a multiple of 9 and is born after K.

Q1. Who among the following is the oldest?

- (a) M
- (b) K
- (c) W
- (d) Q
- (e) None of these

K is born in the year 1951, so he is the oldest among the following

1951 - K - 69
1957 - Q - 63
1966 - D - 54
1976 - W - 44
1986 - B - 34
1995 - O - 25
1999 - P - 21
2001 - M - 19
2006 - N - 14

Q2. How many people are born after D?

- (a) Six
- (b) Three
- (c) Four
- (d) Five
- (e) None of these

D was born in the year 1966, so there are six people born after D.

Q3. What is the age of P?

- (a) 25 years
- (b) 44 years
- (c) 21 years

the P is born in the year 1999, so the age of P is 21 years.

(d) 19 years
(e) None
Q4. If O
(a) T
(b)

(d) 19 years

(e) None of these

Q4. If O is related to M, Q is related to W, and then in the same way, K is related to ?

(a) The one whose age is a prime number

(b) O

(c) Q

(d) D

(e) N

there is a person gap between O and M,
Q and W, such that K is related
to D

Q5. Who among the following is born in a year whose digits sum is a multiple of 7?

(a) W

(b) D

(c) Q

(d) P

(e) O

the p is born in year 1999

the sum of its digits: $1+9+9+9 = 28$

which is a multiple of 7.

Directions (6-8): Study the data carefully and answer the questions accordingly. There are ten members in a family of three generation with three married couples. R is the aunt of W and is unmarried. V is married to Q who is the daughter-in-law of L. N is the mother of S who is the brother of R. F is the nephew of S. V is the father of Z who is the granddaughter of L. W is the son of O. N has three children.

Q6. Who is the mother of F?

(a) Wife of L

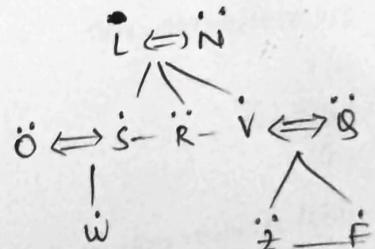
(b) Wife of S

(c) Sister of S

(d) Q

(e) None of these

the mother of
F is S



Q7. How L is related to S?

(a) Grandfather

(b) Father

L is father of S

(c) Uncle

(d) Nephew

(e) None of these

Q8. Four from the following five are similar in a certain way and forms a group. Findout the one who does not belong to that group.

(a) L

(b) W

(c) F

(d) V

(e) Z

Except Z, remaining all are male

Directions (9-10): Study the following data carefully and answer the questions accordingly.

A family has nine members with two married couples. C is the wife of I. F is the mother of E. M is the grandfather of G. E is the mother of D. G is the daughter of C who is the sister of H. E is the only sister of I. J is the father of E.

Q9. How is D related to J?

(a) Granddaughter

(b) Grandson

(c) Daughter

(d) Son

(e) Can't be determined

Q10. Who is the father of H?

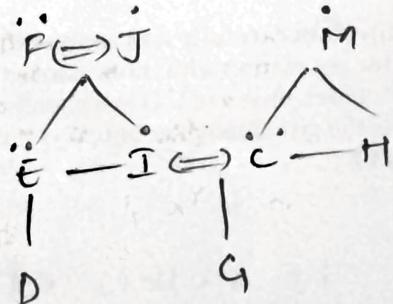
(a) F

(b) M

(c) J

(d) D

(e) Can't be determined



9) the gender of D can be anything, so can't determine

10) M is the father of H.

Assignment -2

Directions (1-3): Study the information carefully and answer the questions given below.

Seven persons i.e., P, Q, R, S, T, U and V are in the family of four-generation with one married couple. There are three female members of the family. V is the mother of T who is grandmother of S. R is son of the one who is daughter in law of P. R has two children. S is female and she is not sister of Q.

Q1. Who among the following is grandson of V?

- (a) U
- (b) T
- (c) R
- (d) Q
- (e) None of these

the grandson of V is 'R'

Q2. Who among the following is mother-in-law of Q?

- (a) P
- (b) V
- (c) R
- (d) S
- (e) U

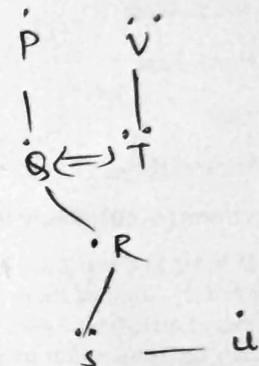
the mother-in-law
of Q is V

Q3. How is U related to T?

- (a) Grandson
- (b) Granddaughter
- (c) Father
- (d) Mother
- (e) None of these

V is the grandson of T.

Directions (4-5): Study the information given below and answer the questions based on it.

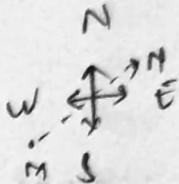
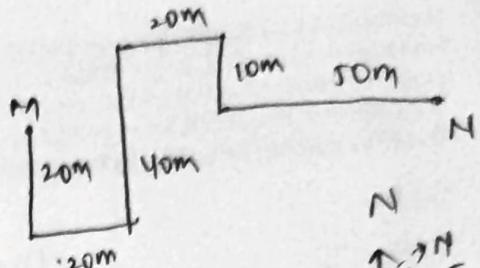


A person walks 20mt from the point M towards South direction and takes a left turn and walks for another 20mt. Then, he takes a left turn and walks for 40mt. After that, he took right turn and walks for 20mt. Then, he turns right and walks for 10mt. He goes for another left turn and walks 50mt and reach to the point N.

Q4. Finally, he is facing in which direction?

- (a) North
- (b) South
- (c) West
- (d) East
- (e) None of these.

Finally, he
is facing
towards east



Q5. In which direction is N with respect to his initial position?

- (a) South
- (b) North-West
- (c) North-East
- (d) East
- (e) None of these.

with respect to M,
his final position
is in the direction
of N-E

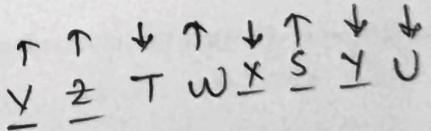
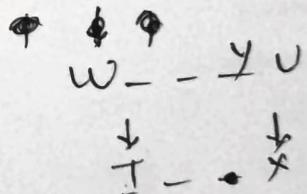
Directions (6-10): Study the following information to answer the given questions

S, T, U, V, W, X, Y and Z are sitting in a straight line equidistant from each other (but not necessarily in the same order). Some of them are facing south while some are facing north. Three persons sit between W and U who sits at an extreme end. Y sits third to the right of W. Both the immediate neighbor of W faces opposite direction of W. T sits 2nd to the right of X and both faces south direction. Z and T sits immediate right to each other and none of them sits at any extreme end. S faces north. V doesn't sit adjacent to U and Y. Y and U face same direction as T but opposite to V.

Q6. How many persons in the given arrangement are facing north?

- (a) More than four
- (b) Four
- (c) One

there are 4 people facing
North. they are
V, Z, W and S



(d) Three

(e) Two

Q7. Four of the following five are alike in a certain way, and so form a group. Which of the following does not belong to the group?

(a) W, X

(b) Z, Y

(c) T, S

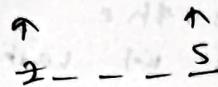
(d) T, Y

(e) V, U

Except T, Y, all the remaining pairs in the direction opposite to each other

Q8. What is the position of S with respect to Z?

(a) Second to the left



(b) Third to the right

at its fourth to the right of Z.

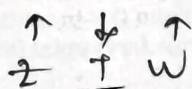
(c) Third to the left

(d) Fourth to the right

(e) Second to the right

Q9. Who amongst the following sits exactly between Z and W?

(a) T



(b) Y

T is sitting exactly b/w Z and W.

(c) X

(d) W

(e) U

Q10. Who is sitting 2nd to the right of T?

T - is facing south direction.
so, V is sitting 2nd
to the right of T

(a) Z

(b) V

(c) X

(d) W

(e) None of these

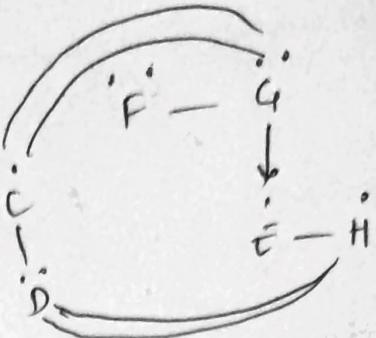
Direction (11-12): Study the following information carefully and answer the questions accordingly.

There are six members in a family with two generations. Farah is the sister-in-law of Gita who is the mother of Eshan. Divya has no sister-in-law. Chirag is the father-in-law of Divya. Hanu is the brother of Eshan, who is unmarried. Farah is unmarried.

Q11. How Hanu is related to Divya?

- (a) Uncle
- (b) Son
- (c) Brother
- (d) Husband
- (e) None of these

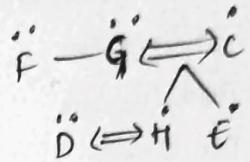
Hanu is husband
of Divya



Q12. How Chirag is related to Eshan?

- (a) Aunt
- (b) Uncle
- (c) Father
- (d) Mother
- (e) None of these

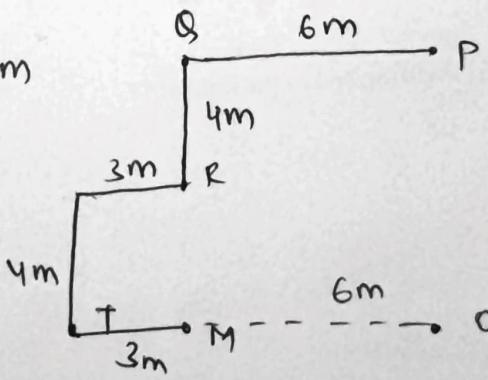
Chirag is the
father of Eshan
who is brother of
Hanu.



Directions (13-15): Study the information given below and answer the questions based on it.
 A person is standing at point P. He starts walking towards the west direction and walks for 6m and reached point Q and then he takes a left turn and walks for 4m and reached point R, then he takes a right turn and walks for 3m then he takes a left turn and walks for 4m and reached point T and then he takes another left turn and walks for 3m and reached point M. **Q13. Point O is in south direction of point P in a way that point T, M and O are in a horizontal line, then how far is point O with respect to point M?**

- (a) 4m
- (b) 6m
- (c) 5m
- (d) 7m
- (e) 11m

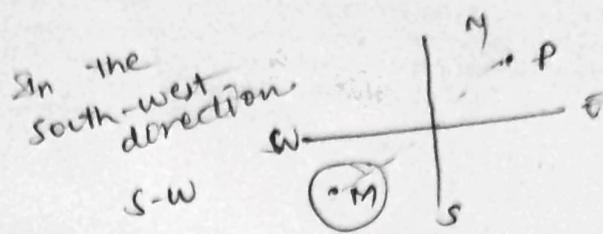
The distance O
wrt M is 6m



south of P
&
Horizontal
to T

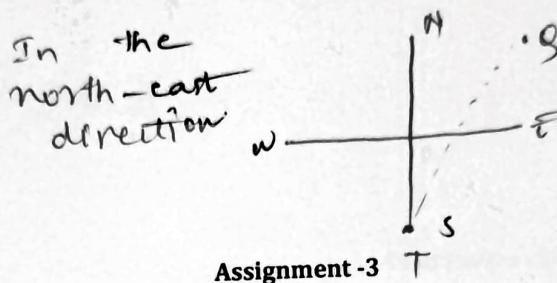
Q14. In which of the following direction is point M with respect to point P?

- (a) South-west
- (b) South-east
- (c) North
- (d) East
- (e) North-west



Q15. In which of the following direction is point Q with respect to point T?

- (a) North-west
- (b) North-east
- (c) South-east
- (d) North
- (e) South-west



Assignment -3

Directions (1-5): Study the following information carefully and answer the given questions.
Eight students have seated around a circular table in which some are facing towards the centre and some are facing outside the centre. E sits third to the right of D. Only two persons sit between G and B and both are facing same direction. A sits third to the right of the one who sits second to the left of G. F is neither immediate neighbour of G nor B. C sits third to the right of F who sits opposite to H. G is facing same direction as D but opposite to C and A. E sits second to the right of H who is facing same direction as F. B and D faces each other. E faces towards the center.

Q1. Who among the following sits third to the right of A?

- (a) E
- (b) F
- (c) D
- (d) G
- (e) None of these

Q2. Who among the following sits opposite to C?

- (a) B
- (b) E
- (c) H
- (d) A
- (e) None of these

Q3. How many persons sits between D and H, when counting left of D?

- (a) Four
- (b) Three
- (c) Two
- (d) One
- (e) None

Q4. What is the position of B with respect to F?

- (a) Third to the left
- (b) Immediate right
- (c) Second to the right
- (d) Immediate Left
- (e) None of these

Q5. How many persons facing inside?

- (a) One
- (b) Four
- (c) Three
- (d) Two
- (e) None of these

Assignment -4

Directions (1-5): Study the following information carefully and answer the questions given below.

Eight persons were born on two different dates either 22nd or 25th of the same year (that is not a leap year) but in different month- January, February, March and April. G is younger than F. H was born in the month which have even number of days and on even number

date. Only two persons was born in between B and E. C was born on 25th of the month which have even numbers of days. Not more than three persons were born before D. A is the third youngest person in the group. E was born in the month which have 31 days. D is younger than H. G was born in the month which have even numbers of days. More than three persons was born in between B and G.

Q1. Who among the following was born on 22nd March?

- (a) H
- (b) G
- (c) E
- (d) F
- (e) None of these

Q2. How many persons were born after B?

- (a) Six
- (b) Five
- (c) Three
- (d) One
- (e) None

Q3. Which of the following pair of persons was born in February?

- (a) A-B
- (b) D-F
- (c) G-C
- (d) H-D
- (e) None of these

Q4. Which of the following is true about F?

- (a) F was born in March
- (b) F is the oldest person
- (c) F was born on an odd numbered date
- (d) Only three persons are younger than F
- (e) None of these

Q5. Which of the following month-date combination is true about C?

- (a) January-25th
- (b) March-22nd
- (c) February-22nd
- (d) April-25th
- (e) None of these

Assignment -5

Direction : Study the following information to answer the given questions:

In a certain code language

'fact case under europe' is coded as 'la pa zi ta' 'winner case under fact' is coded as 'pa zi la sa' 'verdict under north roar' is coded as 'na hi ga pa' "fact sport orange verdict" is coded as 'zi mi jo ga'

Q1. How will 'fact winner verdict' be coded in the given language?

- (a) zi la sa
- (b) zi sa ga
- (c) sa mi jo
- (d) pa zi mi
- (e) None of these

fact winner verdict
- zi sa ga

Q2. How will 'verdict under roar' be coded in the given language?

- (a) zi la sa
- (b) zi sa ga
- (c) sa mi jo
- (d) pa zi mi
- (e) None of these

verdict under roar
- ga pa hi

Q3. What does 'pa' stand for?

- (a) winner
- (b) verdict
- (c) under

pa stands for under

fact case under europe - la pa zi ta
winner case under fact - pa zi la sa
verdict under north roar - na hi ga pa
fact sport orange verdict - zi mi jo ga
fact - zi
under - pa
case - la
winner - sa
verdict - ga
europe - ta

(d) sport

(e) None of the these

Q4. Which of the following will be coded as 'na hi la' in the given language?

(a) case under roar

(b) north roar case

(c) winner case verdict

(d) north fact verdict

(e) None of these

na hi la - north roar case

Q5. What is the code for 'la' stand for?

(a) case

la stands for case

(b) verdict

(c) winner

(d) roar

(e) None of these.

Directions : Study the information carefully and answer the questions given below.

In a family there are nine members. S is the grandfather of M, who is brother in law of X, who is the only son of P. Q is the daughter in law of R, who is the daughter in law of T. U is the mother in law of M, who is son of V, who is married to R.

Q6. How is T related with M?

(a) Grandmother

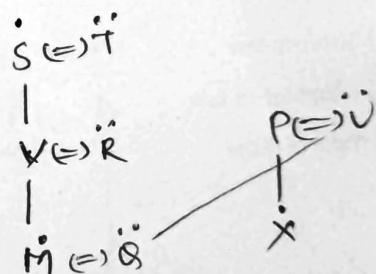
(b) Granddaughter

(c) Mother

(d) Father

(e) None of these

T is the
grandmother
of M



Q7. How is U related with X?

(a) Son in law

U is the
mother of X

(b) Daughter in law

(c) Mother

(d) Granddaughter

(e) Cannot be determined

Q8. How many male members are there in the family?

(a) Four

(b) Three

(c) Five

(d) Two

(e) None of these

there are 5 males in the family,
they are S, V, M, P, X

Q9. Pointing toward a girl, Neha said, "she is the sister of the only son of my father's wife". How Neha related to that girl?

(a) Cousin

(b) Niece

(c) Daughter

(d) Sister

(e) None of these

Father's wife
only son - sister - related as sister

Q10. If 'M x N' means 'M is the daughter of N', 'M + N' means 'M is the father of N', 'M - N' means 'M is the mother of N' and 'M - N' means 'M is the brother of N', then in the expression $R \div Z + M - U \times X$, how is R related to X?

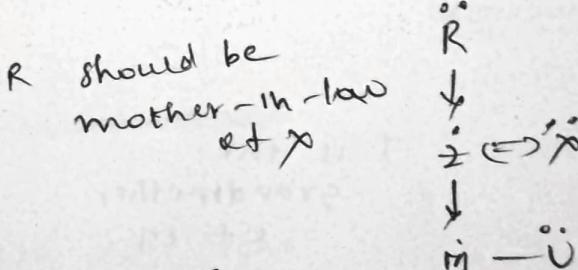
(a) Mother

(b) Aunt

(c) Sister-in-law

(d) Daughter-in-law

(e) None of these



Assignment - 6

Direction : In the following questions, the symbols #, &, @ and \$ are used with the following meanings as illustrated below. Study the following information and answer the given questions:

Note: The directions which are given indicates exact directions. P#Q - P is in the south direction of Q.

P@Q - P is in the north direction of Q. P&Q -

P is in the east direction of Q. P\$Q - P is in

the west direction of Q.

P£QS - P is the mid-point of QS vertically.

Point B is \$24m of point C. Point X£BC. Point E is @23m of point F. Point B is #10m of point

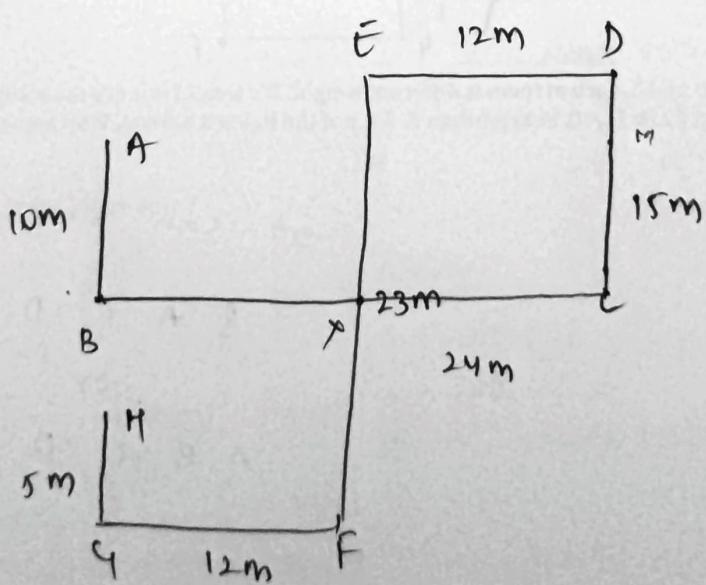
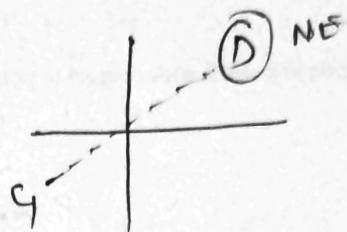
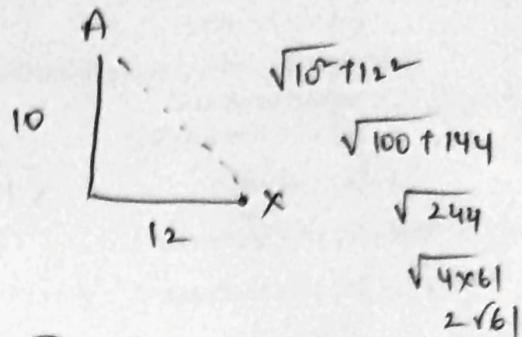
A. Point D is &12m of point E. Point H is @5m of point G. Point G is \$12m of point F. Point C is #15m of point D.

Q1. What is the shortest distance between point A to Point X?

- (a) 16m
- (b) 10m
- (c) $2\sqrt{61}$ m
- (d) $5\sqrt{13}$ m
- (e) None of these

Q2. What is the direction of point D with respect to point G?

- (a) North-East
- (b) South-West
- (c) North-West



B & C - 24m
X & BC
E @ F - 23m
B # A - 10m
D & E - 12m
H @ G - 5m
G & F - 12m
C # D - 15m

(d) East

(e) None of these

Q3. If Point M is @ 10m of point C, then what is the shortest distance and direction of point M with respect to point E?

(a) 13m, North-West

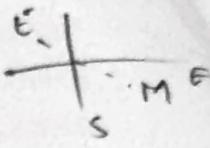
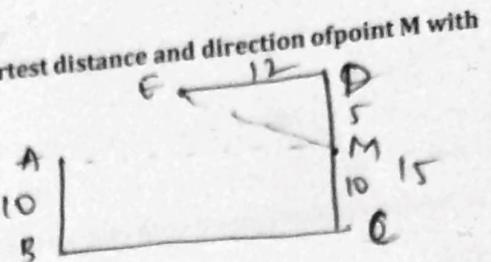
(b) 15m, North

(c) 10m, South-west

(d) 13m, South-east

(e) None of these

$$\sqrt{12^2 + 5^2} = 13$$



Q4. What is the direction of point F with respect to point C?

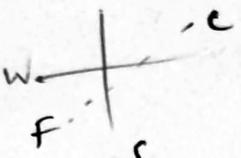
(a) North-East

(b) South-West

(c) North-West

(d) South

(e) None of these



Q5. What is the direction and shortest distance of point A with respect to point G?

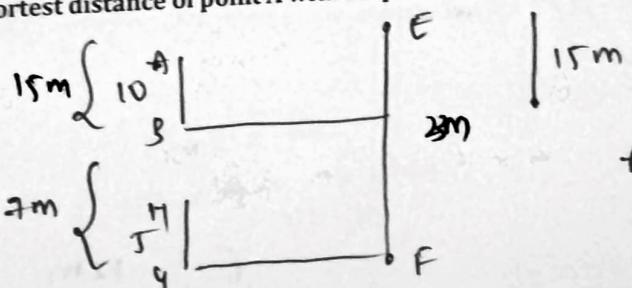
(a) 18m, North

(b) 15m, North-east

(c) 13m, South

(d) 19m, South-west

(e) None of these



$$A - G = 10 + 5 + 3 \\ = 18 \text{ m}$$

Q6. Among A, B, C, D and E, each of them is different weight. D's weight is more than only one person. B's weight is more than E and C. A is heavier than E. C is not the lightest person. Who among the following is heaviest person?

(a) B

(b) A

(c) E

(d) Either (a) or (b)

(e) None of these

gt can be

B A C D E

or

A B C D E

so, the logic behind the codes is

1. the first letter indicates the letter parallel to the last letter of word in the written order
2. the second one represents the no. of letters in the word $\times 2$
3. the third one is the second letter of the given word.

Direction () : Study the following information carefully and answer the following question.
The following words are coded in this manner:

"Hit Two Golf Ball" is coded as "08A U80 G6I L6W"

"You Wax Inner Space" is coded as "F6O I10N C6A V10P"

"Part Centre Control Fixed" is coded as "G8A V12E O140 W10I"

Q7. What is the code for 'Reverse'?

- A Z
(a) S10E
(b) V14R
(c) R14S
(d) V14E
D W
(e) None of these

E V
F U
G T
H S
I R
J &
K P
L D
M N

- (a) Y22I
(b) L24M
(c) B24M
(d) B22M
(e) None of these

Q9. 'V18A' is a code from which word?

- (a) Wanted
(b) Sartre
(c) Backspace
(d) Reynolds
(e) None of these

Q10. What is the code for 'Every Fact'?

- (a) B12U G6A
~~(b)~~ B10V G8A
(c) H12D J8B
(d) F8T U10V
(e) None of these

for reverse:
• parallel to E is V
• $3 \times 2 = 6$
• E
V14E

for Immediately:
• parallel to Y is B
• $11 \times 2 = 22$
• M
B22M

V18 A
• parallel to V - E - last letter
• 18 (~~(10x2)~~ 9×2)
• second letter is a
(so word is backspace)

Every fact

• parallel to Y - B • parallel to t - G
• $10 \times 2 = 10$ • $4 \times 2 = 8$
• V - second letter • A - second letter

Hit two golf Ball — G6I L6W U80 08A

You wax inner space — F6O C6A I10N V10P

part centre control fixed — G8A V12E O140 W10I

According to
the question,

Hit - G6I
Two - ~~U80~~ L6W
Golf - U80
Ball - 08A

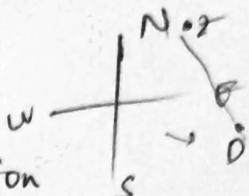
Assignment -7

Directions (1-3): Study the data carefully and answer the questions accordingly. Mohit ran in a marathon, he started from Point Q and ran for 6km towards the west and reached Point N, then he turned towards his right and ran for 10km to reach Point Z, then he turned towards his left and ran for 6km to reach Point A, then he turned towards his left and ran for 15km to reach Point T, finally took a left turn and ran for 5km to reach Point D.

Q1. What is the direction of Point D with respect to Point Z?

- (a) South-west
- (b) North-west
- (c) North
- (d) South-east
- (e) None of these

It is in the
South-east direction



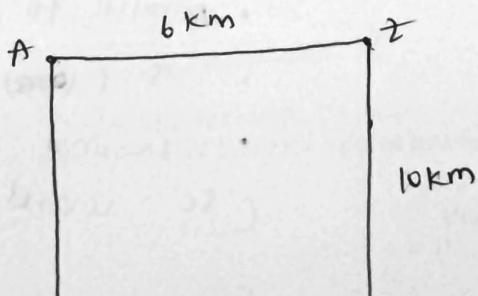
Q2. What is the shortest distance between Point D and Point N?

- (a) 6km
- (b) 18km
- (c) 12km
- (d) 4km
- (e) None of these

$$\begin{aligned} \text{the distance between} \\ DN &= NZ - QD \\ &= 6 - 2 = 4 \text{ km} \end{aligned}$$

Q3. What is the shortest distance between initial position of Mohit and Point R?

- (a) 32km
- (b) 17km
- (c) 21km
- (d) 37km
- (e) None of these

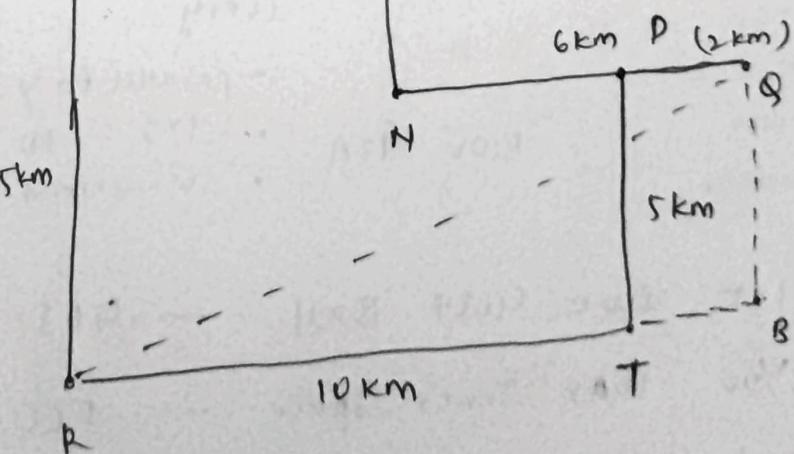


the shortest
distance b/w Q
and R,
it is a rt.
triangle,

$$\sqrt{(12)^2 + (5)^2}$$

$$\sqrt{144 + 25}$$

$$\sqrt{169} = 13 \text{ km}$$



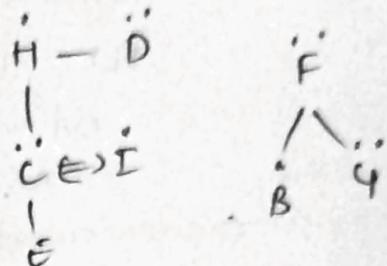
→ It is not in the options

Directions (4-6): Read the following information carefully and answer the questions given below.
A three-generation family consists of eight members B, C, D, E, F, G, H and I. C is the mother of E. I is the son-in-law of H. Only one child of F is married. G is the female member of the family. C has only one child. B is the brother-in-law of C. B is the child of F who is the mother of G. D is the maternal aunt of C. H is not a male member.

Q4. What is the relation of B with respect to E?

- (a) Aunt
- (b) Uncle
- (c) Father
- (d) Mother
- (e) None of these

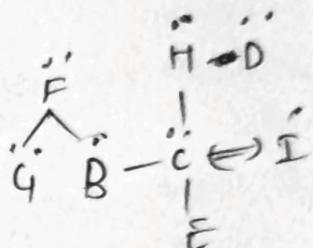
B is the uncle
of E, as B
is brother-in-law
of E's mother



Q5. How many female members are there in the family?

- (a) Two
- (b) Three
- (c) One
- (d) Four
- (e) Cannot be determined

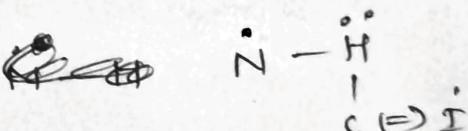
we can't say,
because they
haven't mentioned
the gender of F.



Q6. If N is the husband of H, then what is the relation of N with respect to I?

- (a) Aunt
- (b) Mother-in-law
- (c) Sister-in-law
- (d) Father-in-law
- (e) None of these

~~N~~ N is father-in-law
of I as he is the
husband of C where C is daughter
of F and N is son-in-law of H



Directions (7-10): Read the following information carefully and answer the questions given below.

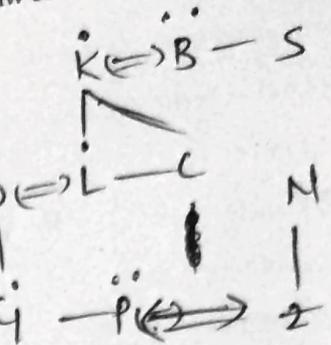
There are eleven members in a family of three generations in which there are three married couples. A is the brother of D who is the sister-in-law of C. Z is not the spouse of D. Sibling of G is the daughter-in-law of N. S is unmarried. N is the mother of Z. L is one of the

members of the family. P is the female member of the family. K is the father-in-law of D. G is the granddaughter of B who is the spouse of K. G is the daughter of D. S is the sister-in-law of K.

Q7. How many female members are there in the family?

- (a) Six
- (b) Seven
- (c) Eight
- (d) Either six or seven
- (e) None of these

there are 4 confirmed females, B, D, G and P
but the gender A - D - L - C
of S, C, N is
not mentioned.



Q8. What is the relation of P with respect to N?

- (a) Son-in-law
- (b) Daughter-in-law
- (c) Son
- (d) Daughter
- (e) None of these

P is the daughter-in-law
of N as P is the
wife of Z who is parent
of N.

Q9. Who is the grandmother of G?

- (a) K
- (b) B
- (c) S
- (d) A
- (e) None of these

B is the grandmother of G.

Q10. What is the relation of L with respect to Z?

- (a) Son-in-law
- (b) Father-in-law
- (c) Son
- (d) Father
- (e) None of these

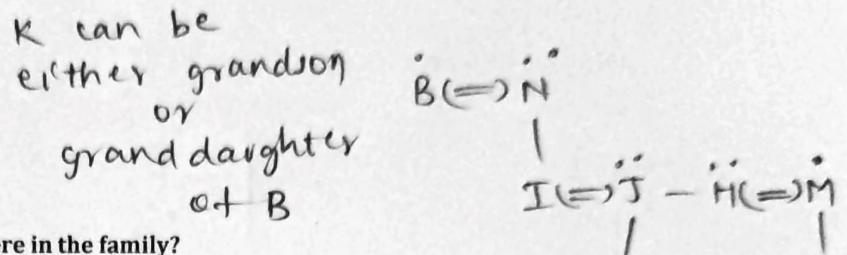
L is father-in-law of Z
as P is daughter of
L, and Z is
the husband of P.

Directions (11-13): Read the following information carefully and answer the questions given below.

There are nine family members i.e. D, K, M, N, J, I, U, H and B in a three generation family inwhich three are married couples. J is the sister-in-law of M and D is the brother of U. U is the nephew of M, who is the father of K. H is the daughter-in-law of B. B is the spouse of N, who is the mother of I. I is married to J.

Q11. What is the relation of K with respect to B?

- (a) Grandson
- (b) Son
- (c) Granddaughter
- (d) Either grandson or granddaughter
- (e) Daughter



Q12. How many female members are there in the family?

- (a) Three
- (b) Four
- (c) Five
- (d) Cannot be determined
- (e) Six

we cannot say
as gender of K
is not mentioned

Q13. What is the relation of M with respect to D?

- (a) Father
- (b) Uncle
- (c) Brother
- (d) Son
- (e) None of these

M is the uncle of D.
As M's wife is sibling of J,
who is mother of D

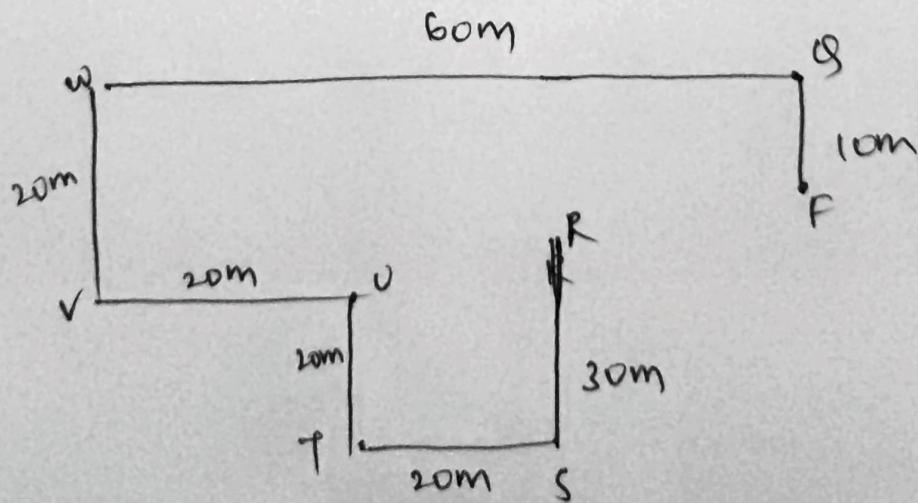
Directions (14-15): Study the data carefully and answer the questions accordingly.

Point S is 30m south of point R. Point Q is 60m east of point W. Point S is 20m east of point

T. Point T is 20m south of point U. Point V is 20m west of point U. Point F is 10m south of point Q. Point W is 20m north of point V.

Q14. Point R is in which direction of point F and what is the shortest distance between them?

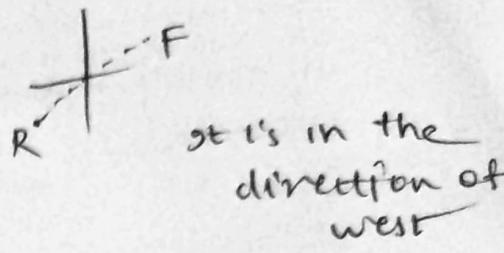
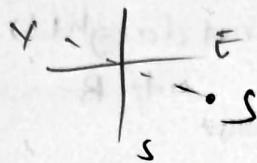
- (a) South, 20m



- (b) North-East, 10m
- (c) East, 30m
- (d) West, 20m
- (e) None of these

Q15. Point S is in which direction of point V?

- (a) West
- (b) South-East
- (c) North-West
- (d) East
- (e) None of these



it's in the
direction of
west

or it's in the
south-east direction.