

REASONING ABILITY

Ten persons are sitting in two rows. In row 1, A, B, C, D, E are sitting, and all are facing South and in row 2, P, Q, R, S, T are sitting, and all are facing North. Each person sitting in row 1 is facing another person of row 2. Three persons sit between Q and T. A faces the person who sits 3rd to the left of T. Two persons sit between A and B. P sits 2nd to the right of S. Two persons sit between E and D, who doesn't face P.

1. Who among the following faces the person who sits immediate right of R?

(a) B

(b) C

(c) A

(d) D

(e) None of these

2. Four of the following five are alike in certain way based from a group, find the one which does not belong to that group?

(a) B

(b) C

(c) D

(d) T

(e) Q

Seven family members of three generations are sitting in a row and all are facing North. Three persons sit between V's father and V's sister, who sits at extreme end. S is grandson of P, who is mother in law of U. T is husband of R and sits at extreme end. V is son of Q, who sits 2nd to the left of T. Three persons sit between Q and R. P sits 2nd to the left of S, who doesn't sit next to T. One person sits between V and R's son.

3. Who among the following sits 2nd to the left of V's wife?

(a) P

(b) Q

(c) R

(d) S

(e) None of these

4. How is Q related to T?

(a) Father

(b) Mother

(c) Father in law

(d) Mother in law

(e) None of these

5. How many persons are sitting between son of T and father in law of U?

(a) None (b) One (c) Two

(d) Three (e) More than three

**Input: 734269 825497 647538 219354
961357 321658**

**Step I: 962437 794528 835746 453912
753169 856123**

**Step II: 453912 753169 794528 835746
856123 962437**

**Step III: 135924 135796 579248 357468
135268 379246**

**Step IV: 3458 33554 351832 152848
31048 211824**

Step V: 20 20 22 28 16 18

Step V is the last step of the above arrangement as the intended arrangement is obtained.

As per the rules followed in the given steps find out the appropriate steps for the given input:

**Input: 856347 745982 329584 512379
954267 463512**

6. What is the difference between the 3rd number from left in step II and 2nd number from right in step IV?

(a) 391834

(b) 391826

(c) 134099

(d) 134091

(e) None of these

7. Which of the following number is 3rd from right in step V?

(a) 10

(b) 20

(c) 22

(d) 23

(e) None of these

8. What will come when the number which is 2nd from right in step IV is divided by the number which is 2nd from left in final step?

(a) 14912

(b) 15992

(c) 13592

(d) 12952

(e) None of these

9. What is the sum of 2nd number from left in step II and 4th number from right in step III?

(a) 1119927

(b) 1121707

(c) 647015

(d) 648795

(e) None of these

Eight persons A, B, C, D, E, F, G, H are sitting around a circular table and all are facing towards the center.

- 1. $P @ Q$ means P sits 2nd to the left of Q .**
- 2. $P \# Q$ means P sits opposite to Q .**
- 3. $P \$ Q$ means P is an immediate neighbor of Q .**
- 4. $P \% Q$ means P sits 3rd to the left of Q .**
- 5. $P \& Q$ means P sits 3rd to the right of Q .**
- 6. $P \wedge Q$ means P is not an immediate neighbor of Q .**

Given Statements:

$H \& E \$ G, B \# E, C @ G, D \# F, E \wedge C \wedge F$

10. Which of the following is true?

(a) H%D (b) A\$D (c) D#B

(d) G\$F (e) Both (a) and (d)

11. Who among the following sits 3rd to the left of B?

(a) C

(b) D

(c) A

(d) E

(e) None of these

A & B means **A** is **15 m** to the north
of **B**

A @ B means **A** is **23 m** to the east
of **B**

A # B means **A** is **20 m** to the south
of **B**

A % B means **A** is **12 m** to the west
of **B**

12. If **P % Q # R & S @ T # U** is true and **Point X** is **5m** to the south of **T**, then what is the shortest distance between point **X** and point **P**?

(a) 6m

(b) 8m

(c) 10m

(d) 11m

(e) None of these

13. What is the shortest distance between Point P and Point S?

- (a) 11m (b) 12m (c) 13m**
(d) 14m (e) None of these

The following words are coded in this manner:

'World make sense meaningful' is coded as '8\$A, 2!R, 2#N, 14\$F'

'Rain starts every week' is coded as '8^A, 10#R, 2+E, 8!E'

'Easily mind (a) is coded as '12 %R, 8\$I, 10+1'

'Reputation prestige turns food' is coded as '12%I, 2~R, (b), 8@O'

14. What will come in the blank '(a)'?

(a) Prepares

(b) Ready

(c) Turn

(d) Funny

(e) Early

15. What will come in the blank '(b)'?

(a) 3\$F

(b) 8*D

(c) 10+E

(d) 10#D

(e) 14 ^ I

Solutions (6-9): Logic: Step I: 1st digit is replaced by 6th digit, 2nd digit is replaced by 5th digit and so on until 6th digit is replaced by 1st digit in each number.

Step II: numbers are arranged in ascending order from left to right

Step III: first arranged odd digits then even digits in ascending order in each number.

Step IV: multiplied 1st and 2nd digit, 3rd and 4th digit, 5th and 6th digit in each number.

Step V: total sum of the numerical value of all digits in each number.

Input: 856347 745982 329584 512379 954267 463512

Step I: 743658 289547 485923 973215 762459 215364

Step II: 215364 289547 485923 743658 762459 973215

Step III: 135246 579248 359248 357468 579246 135792

Step IV: 31024 351832 151832 152848 351824 33518

Step V: 10 22 20 28 23 20

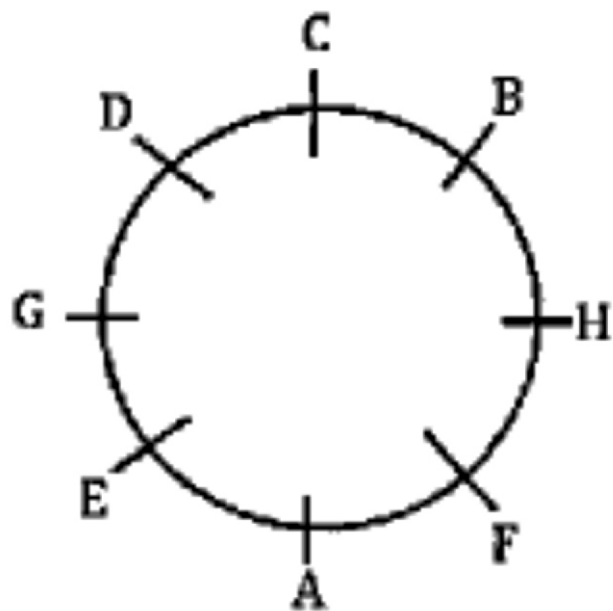
6. (c);

7. (e);

8. (b);

9. (d);

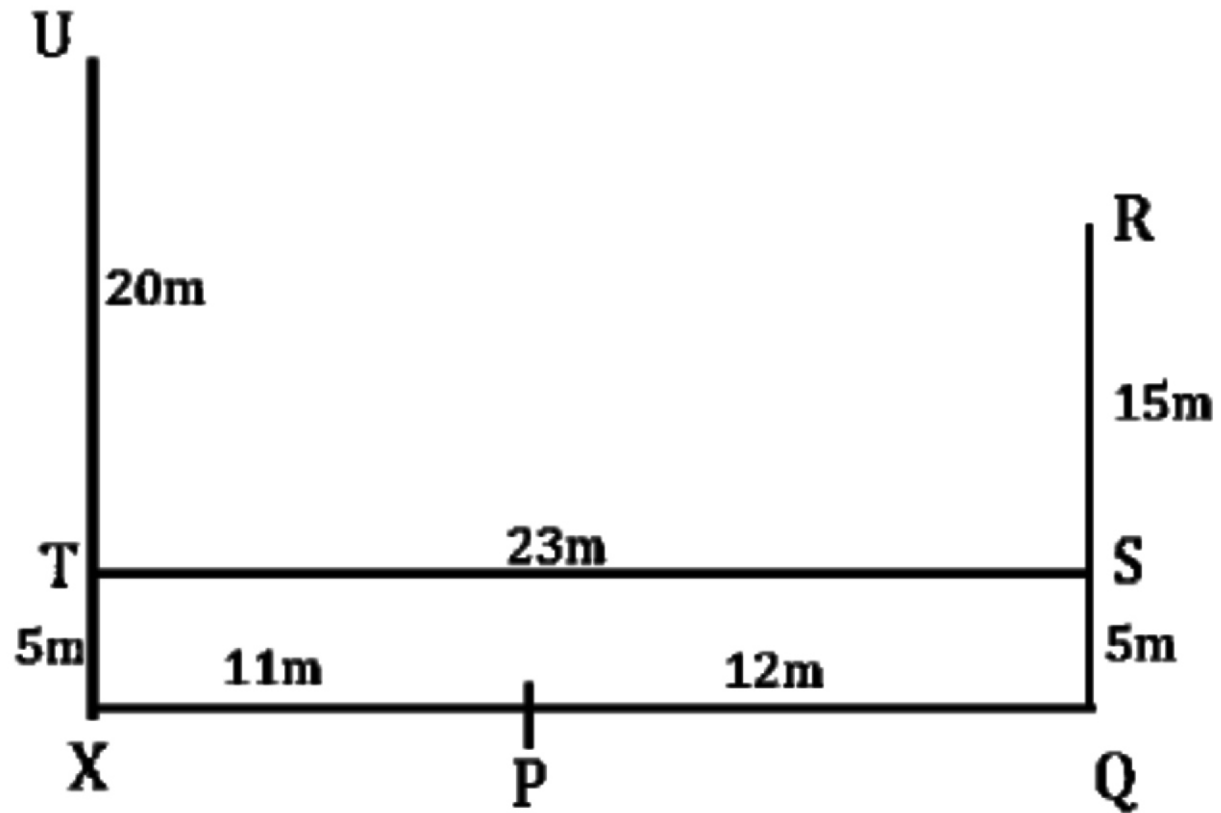
10 to 11



10. (a)

11. (c)

12 to 13



12. (d)

13. (c)

14 to 15

Solutions (14-15): Alphabets- third letter from the right end of the given word.

Number- If the number of letters in the given word is odd then subtract three from the number and If the number of letters in the given word is Even then add four from the number.

First letter of each word represents specific symbols as below-

words	W	M	S	R	E	P	T	F
code	!	\$	#	^	+	%	~	@

Example: World – 2 ! R

14. (a)

15. (e)