



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

Seven persons of a family are sitting in a row facing north. O sits at one of the ends of the row. Only one person sit between J's husband and O. J's son is an immediate neighbour of J's husband. Only one person sit between J's son and N. J's mother sit immediate right of N. O is the son of R and more than one person sit between J's mother and J's father. J's daughter is sitting second from one of the end of the row. J does not sit at the end of the row. Three persons sit between J and her brother. R is an immediate neighbour of J's brother. Only one person sit between R and G. K is a male. P is not an immediate neighbour of J.

**Q1. How many persons are sitting between G and N?**

- (a) One
- (b) Three
- (c) More than three
- (d) Two
- (e) None

**Q2. How many persons sit to the left of K?**

- (a) One
- (b) Three
- (c) More than three
- (d) Two
- (e) None

**Q3. Who among the following is the grandson of R?**

- (a) N and G
- (b) K
- (c) P and N
- (d) O and P
- (e) G

**Q4. How is K related to P?**

- (a) Sister
- (b) Brother
- (c) Son-in-law
- (d) Father
- (e) Sister-in-law

**Q5. Who among the following sit forth to the right of J's father?**

- (a) P
- (b) R
- (c) G
- (d) N
- (e) J



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**Directions (6-9): Study the information carefully and answer the questions given below.**

A person starts walking in east direction from point N. After walking 15m he reached point O, from there he takes a left turn and walk 5m till point P. From P, he turns left and walk 10m and reaches point Q. Then, he turns left and walks 10m to reach point R. From point R he turns right and walks 10m. Now he reached point S and from there he turns right and walks 20m to reach point T. From point T he turns right and walk 20m to reach point U.

**Q6. If J is 5m north to P, then what is the distance between U and J?**

- (a) 5m
- (b) 10m
- (c) 15m
- (d) 20m
- (e) none of these

**Q7. Four of the following five belongs to a group based on their directions find the one that does not belong to that group?**

- (a) T, Q
- (b) N, R
- (c) Q, O
- (d) T, R
- (e) O, P

**Q8. How far is point O from point U?**

- (a) 5m
- (b) 10m
- (c) 15m
- (d) 20m
- (e) none of these

**Q9. What is the distance of point O from point X, which is the mid-point of QR?**

- (a) 20m
- (b) 10m
- (c) 5m
- (d) 15m
- (e) 25m

**Q10. If in the number 987654321, 1 is added to second, fourth, sixth and eighth digit and 1 is subtracted from the rest of the digits, then how many digits are repeated?**

- (a) One
- (b) Three
- (c) Two
- (d) More than three
- (e) None



**Directions (11-15): Study the following information to answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule. The following is an illustration of input and rearrangement.

Input: 29 shorter 10 bigger faster 81 cheaper younger 97 52

Step I: bigg 29 shorter 10 faster 81 cheaper younger 52 98

Step II: 11 bigg 29 shorter faster 81 cheaper 52 98 young

Step III: cheap 11 bigg 29 shorter faster 52 98 young 82

Step IV: 30 cheap 11 bigg faster 52 98 young 82 short

Step V: fast 30 cheap 11 bigg 98 young 82 short 53

Step V is the last step of the rearrangement. As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

Input: older 68 45 richer hotter 5 stronger 77 21 elder

**Q11. How many steps would be needed to complete the arrangement?**

- (a) IV
- (b) V
- (c) VII
- (d) VI
- (e) None of these

**Q12. What will the addition of the numbers which is 4<sup>th</sup> from the left end in step II and 4<sup>th</sup> from the right end in step IV?**

- (a) 112
- (b) 210
- (c) 151
- (d) 146
- (e) None of these

**Q13. Which of the following element will be 3<sup>rd</sup> from the left end in step III?**

- (a) elder
- (b) 69
- (c) eld
- (d) 22
- (e) None of these

**Q14. Which of the following element will be 6<sup>th</sup> to the left of 3<sup>rd</sup> from the right end in step V?**

- (a) rich
- (b) strong
- (c) 22
- (d) older
- (e) None of these

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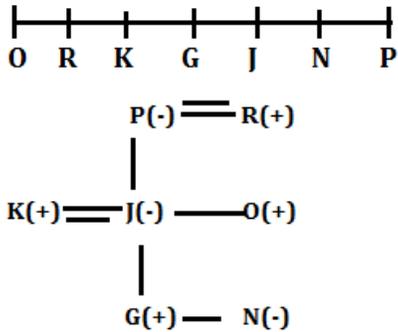
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**Q15. In which of the following step "22 hott 6" would be find in the same order?**

- (a) Step V
- (b) Step II and III
- (c) Step II
- (d) Step V and IV
- (e) None of these

### Solutions

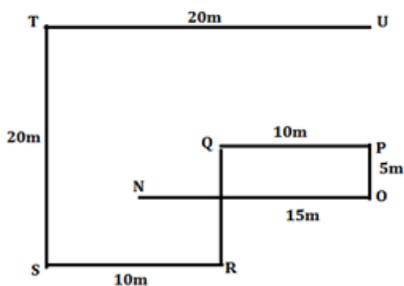
**Solutions (1-5):**



- S1. Ans. (a)
- S2. Ans. (d)
- S3. Ans. (e)
- S4. Ans. (c)
- S5. Ans. (d)



**Solutions (6-9):**



- S6. Ans. (a)
- S7. Ans. (e)
- S8. Ans. (c)
- S9. Ans. (b)

**S10. Ans(e)**

**Sol.**

987654321

896745230

### Solutions (11-15):

In the given input output, one word and one number is arranged in each step. In odd numbered steps such as I, III and V the word is getting arranged from the left end while the number is getting arranged from the right end. While in even numbered steps such as II and IV the numbers are arranged from the left end while the words are arranged from the right end. For step I- The word which is first according to the alphabetical order is arranged from the left end while the highest number is arranged from the right end and so on in the odd steps. For step II- The number which is lowest is arranged from the left end while the word which is last according to the alphabetical order is arranged from the right end and so on in even steps. Also, while arranging each of the number is added by 1 and 'er' is removed from each word while arranging.

Input: older 68 45 richer hotter 5 stronger 77 21 elder

Step I: eld older 68 45 richer hotter 5 stronger 21 78

Step II: 6 eld older 68 45 richer hotter 21 78 strong

Step III: hott 6 eld older 45 richer 21 78 strong 69

Step IV: 22 hott 6 eld older 45 78 strong 69 rich

Step V: old 22 hott 6 eld 78 strong 69 rich 46

S11. Ans.(b)

S12. Ans.(d)

S13. Ans.(c)

S14. Ans.(c)

S15. Ans.(d)



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