Directions for Question 1 and 2: In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.
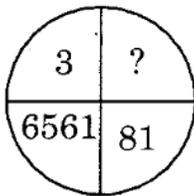
Q1. 6, 18, 3, 21, 7, 56, ?
(a) 8
(b) 9
(c) 63
(d) 64

Q2. 625, 5, 125, 25, 25, ?, 5
(a) 5
(b) 25
(c) 125
(d) 625

Q3. A is 40 m South-west of B. C is 40 m South-east of B. Then, C is in which direction of A?
(a) East
(b) West
(c) North-east
(d) South

Q4. Find the missing character in the given figure.

(a) 9
(b) 18
(c) 24
(d) 27

Q5. Reeta is shifted 3 positions to the right and becomes the middle person in a row of 25 people. What was her original position from the right?
(a) 16th

(b) 15th

(c) 17th

(d) None of the above

Q6. If in a certain code, SWITCH is written as TVJSDG which word would be written as CQFZE?
(a) BARED
(b) BRAED

(c) BREAD
(d) BRADE

Q7. Introducing a man, a woman said, "His wife is the onIy daughter of my father." How is that man related to the woman?
(a) Brother
(b) Father-in-law
(c) Maternal uncle
(d) Husband

Q8. Arrange the following words as per order in the dictionary.

1. Defect

2. Defence

3. Deerstalker

4. Defensive

Options:

(a) 2, 3, 1, 4

(b) 1, 3, 2, 4

(c) 4, 3, 1, 2

(d) 3, 1, 2, 4

Q9. P, Q, R, S, T are sitting around a circular table and all are facing the centre of table. R is to the right of P and second of the left of S. T is not between P and S. Who is second to the left of R?
(a) P
(b) Q
(c) S
(d) T

Q10. Which of the given conclusions logically follows the given two statements.
Statements:
All apples are Banana
No Banana is Grape
Some Grape are Orange
Conclusions
I. Some Banana are Orange
II. No Apple is Orange

III. All Banana are Orange is a possibility
(a) Only I follow
(b) Only II conclusion follow
(c) Only III follow
(d) All conclusion follows

Solutions

S1. Ans. (a)

Sol.
Each term at an even place in the series is the product of its two adjacent terms.
Thus, if the, missing term be x, then we have:
$7 \times x = 56$ or $x = 56 \div 7 = 8$.

S2. Ans. (c)

Sol.
The given sequence is a combination of two series:
I. 625, 125, 25, 5   and
II 5, 25, ?
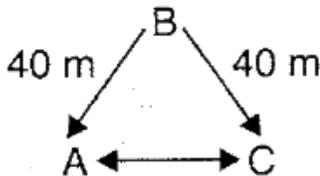The pattern in I is $\div$ 5, while that in II is $\times$ 5.
So, missing term = $25 \times 5 = 125$.

S3. Ans. (a)
Sol.
A is clear from the adjoining diagram,
C lies to the east of A.

S4. Ans. (a)
Sol.
Starting from 3 and moving clockwise, the number in each quadrant is the square of that in the previous quadrant. So,' missing number = $3^2 = 9$

S5. Ans. (a)
Sol.
The middle position in a row of 25 people is the 13th position. If Reeta moved 3 positions to the right to reach the 13th position, her original position was 10th from the left, which makes her original position from the right 16th (25 - 10 + 1 = 16).

S6. Ans. (c)

Sol.
Each letter at odd place in the word is one step behind and each letter at even place in the word is one step ahead of the corresponding letter of the code.

S7. Ans. (d)

Sol.

Only daughter of woman's father— woman herself. So, the man is woman's husband.
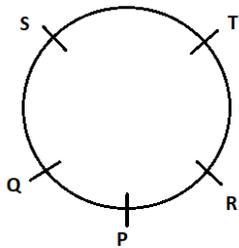
S8. Ans. (d)

Sol.

3. Deerstalker

1. Defect

2. Defence

4. Defensive

S9. Ans. (b)
Sol.
Clearly Q is second to left of R.

S10. Ans. (c)
Sol.