

Blood Relations & Directions Sense



Blood Relation

A person who is related to another by birth or by marriage.

Maternal: related through the mother's side of the family.

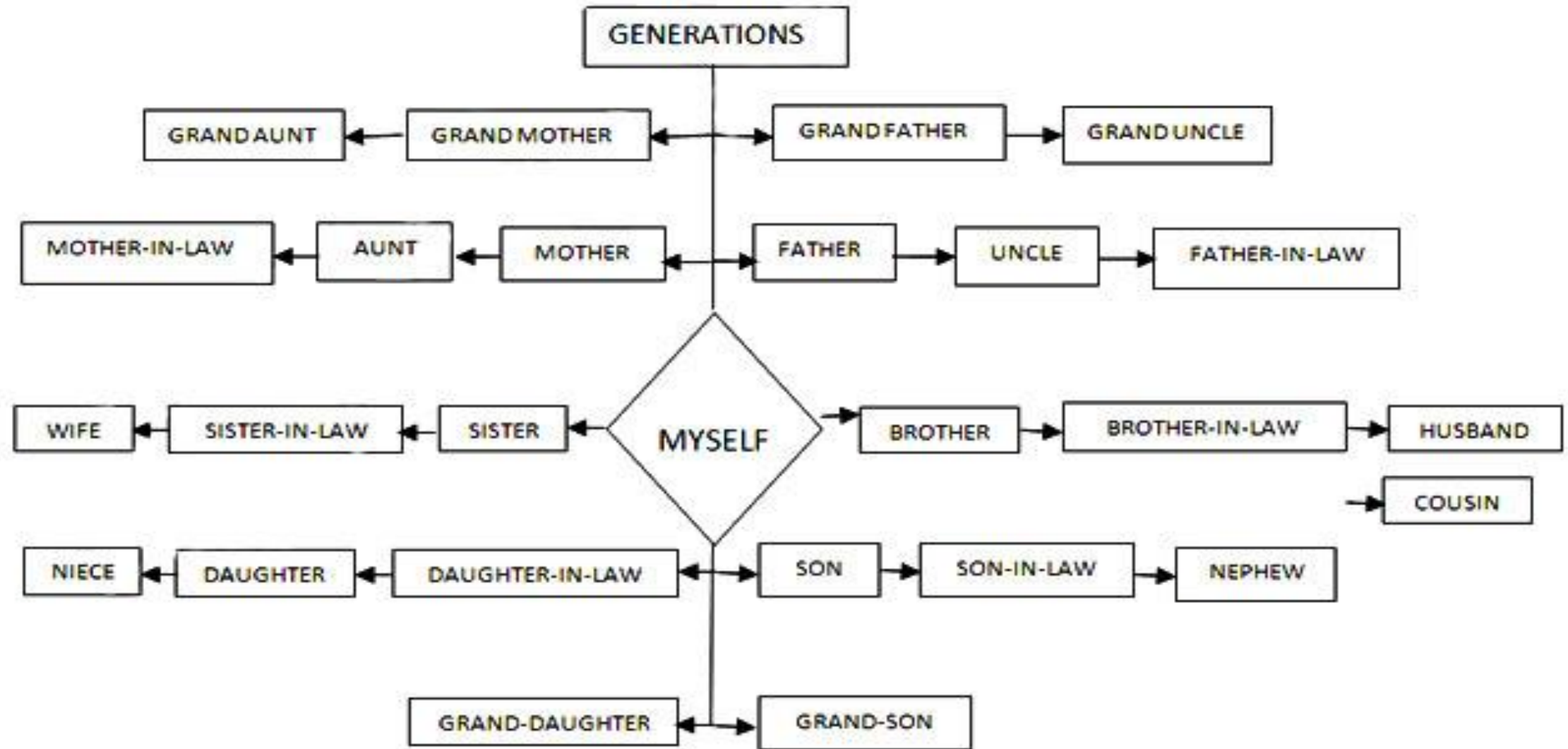
Paternal: related through the father's side of the family.

Siblings: Brothers or Sisters.

Spouse: Husband or Wife.

Note: Cousin is a Common Gender.

Type of Relationship	Terminology in Use
Mother's or Father's son	Myself/Brother
Mother's or Father's daughter	Myself/Sister
Mother's or Father's brother	Uncle
Mother's or Father's sister	Aunt
Mother's or Father's father	Grandfather
Mother's or Father's mother	Grandmother
Son's wife	Daughter-in-law
Daughter's husband	Son-in-law
Husband's or wife's sister	Sister-in-law
Husband's or wife's brother	Brother-in-law
Brother's son	Nephew
Brother's daughter	Niece
Uncle or aunt's son or daughter	Cousin
Sister's husband	Brother-in-law
Brother's wife	Sister-in-law
Grandson's or Granddaughter's daughter	Great-granddaughter



Problem Types



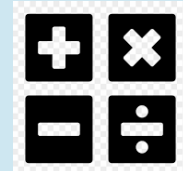
Puzzles based

A piece of brief information about multiple people being interrelated is given.



Conversation based

In such questions, one person describes his/her relationship with another person.



Symbols based

The relationship between two people may be denoted using symbols

Representations

For more clarity, you may use these symbols while solving.

- + for male
- – for female
- \longleftrightarrow to signify a couple
- — to signify same generation relationship
(for e.g., brother-sister, brother-brother, sister-sister, etc.)
- | to signify different generation relationship
(for e.g., father-son, mother-daughter, etc.)

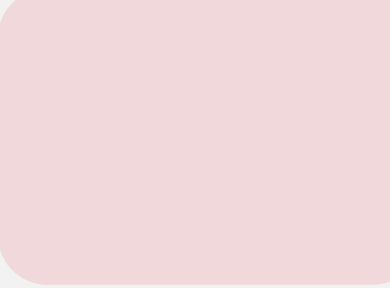
Tips for solving

- ❑ Apply the question to yourself.
- ❑ Do not prejudge the gender.
- ❑ Break the question into smaller parts, apply backtracking.
- ❑ Attentive about Maternal, Paternal, Spouse, Cousin etc.
- ❑ Draw clear diagrams as you solve.

Practice Questions

1. Pointing to a man in the photograph a woman said,
“He is the brother of the daughter of the wife of my husband”
How is the man related to the woman?
 - a. Mother
 - b. Son
 - c. Cousin
 - d. Brother


option b



2. Pointing to a man, Anu said,
“He is the only son of my grandmother’s only daughter.”
How is the man related to Anu?

- a. Cousin
- b. Niece
- c. Brother
- d. Cannot be determined

option c

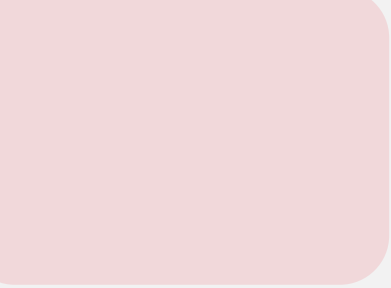


3. Pointing to a girl in the photograph, Ajay said, "Her mother's brother is the only son of my mother's father." How is the girl's mother related to Ajay?

- a. Mother
- b. Sister
- c. Aunt
- d. a or c

option d





4. Ravi is grandfather to Selvi. Balu is son of Ravi. Neetu is wife of Balu. Balu is brother of Kavi. Lakshmi is mother of Kavi. Selvi is daughter of Neetu. How is Lakshmi related to Neetu?

- a. Sister
- b. Mother
- c. Mother-in-law
- d. Aunt

option c

5. Q is father of A and B. X is mother of K, N is son of A. N is the only brother of K. X is daughter-in-law of P. P has only one daughter and one son. Which of the following needs to be true to establish that K is daughter of X?
- a. No extra information is required
 - b. B is unmarried
 - c. X has only one son
 - d. N is grandson of Q

option c

6. In Mr. Mehta's family, there are one grandfather, one grandmother, two fathers, two mothers, one father-in-law, one mother in-law, four children, three grandchildren, one brother, two sisters, two sons, two daughters and one daughter-in-law. How many members (minimum) are there in Mr. Mehta's family?

- A. 7 members
- B. 13 members
- C. 9 members
- D. 16 members

option a

7. Prashant Arora has three children - Sangeeta, Vimal and Ashish. Ashish married Monika, the eldest daughter of Mr. and Mrs. Roy. The Roys married their youngest daughter to the eldest son of Mr. and Mrs. Sharma, and they had two children named Amit and Shashi. The Roys have two more children, Roshan and Vandana, both elder to Veena. Sameer and Ajay are sons of Ashish and Monika. Rashmi is the daughter of Amit. How is Mrs. Roy related to Ashish ?

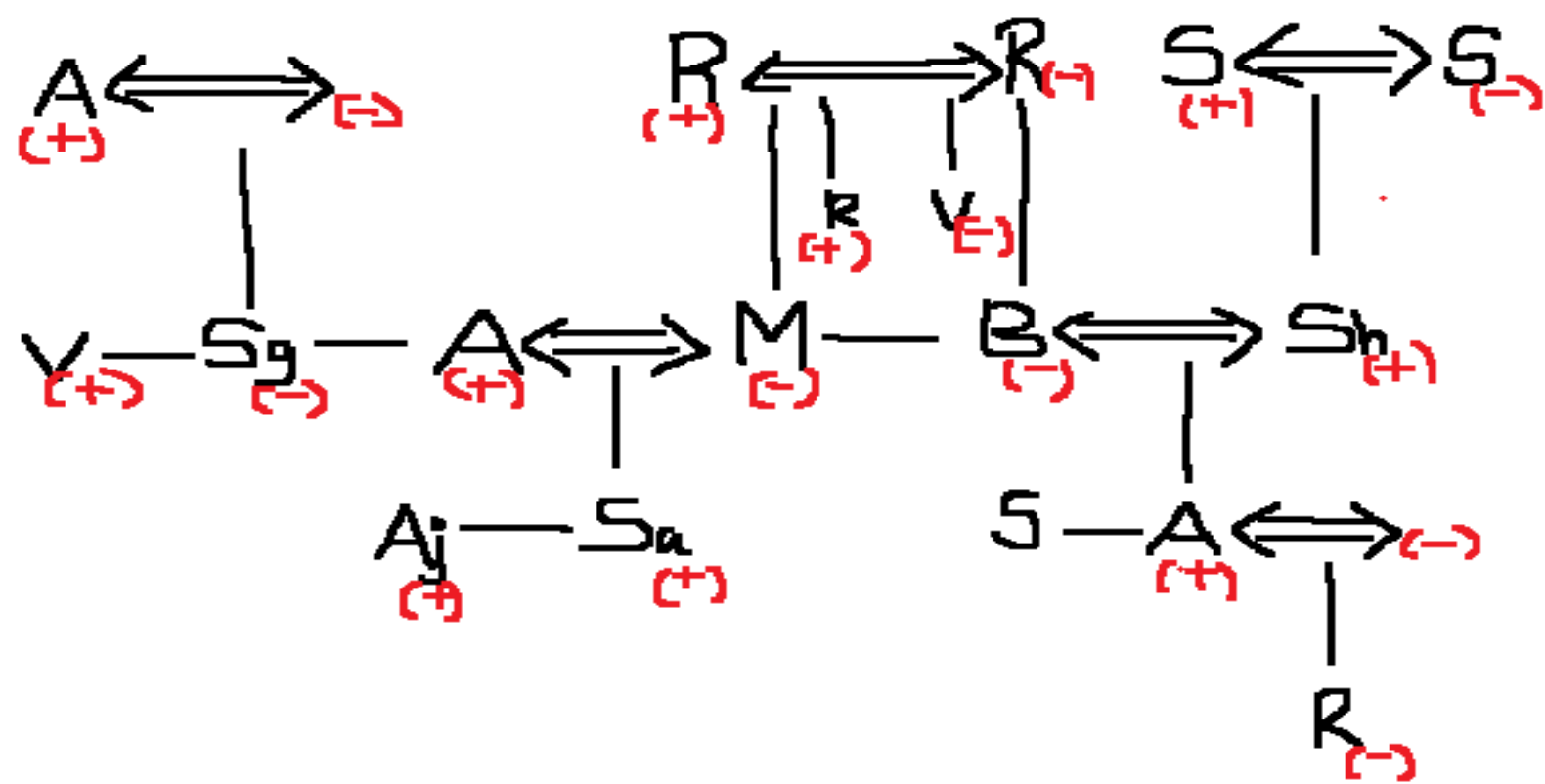
- a. Aunt
- b. Mother-in-law
- c. Mother
- d. Sister-in-law

option b

8. Prashant Arora has three children - Sangeeta, Vimal and Ashish. Ashish married Monika, the eldest daughter of Mr. and Mrs. Roy. The Roys married their youngest daughter to the eldest son of Mr. and Mrs. Sharma, and they had two children named Amit and Shashi. The Roys have two more children, Roshan and Vandana, both elder to Veena. Sameer and Ajay are sons of Ashish and Monika. Rashmi is the daughter of Amit What is the surname of Sameer ?

- a. Roy
- b. Sharma
- c. Arora
- d. None of these

option c



9. If $A + B$ means A is the mother of B; $A \times B$ means A is the father of B; $A \$ B$ means A is the brother of B and $A @ B$ means A is the sister of B, then which of the following means P is the son of Q?

- a. $Q + R @ P @ N$
- b. $Q + R * P @ N$
- c. $Q \times R \$ P @ N$
- d. $Q \times R \$ P \$ N$

option d

10. $A \# B$ means B is A's wife;

$A \% B$ means B is A's sister

$A \$ B$ means B is A's mother;

$A \& B$ means B is A's father

Which of the following means W is the aunt of X?

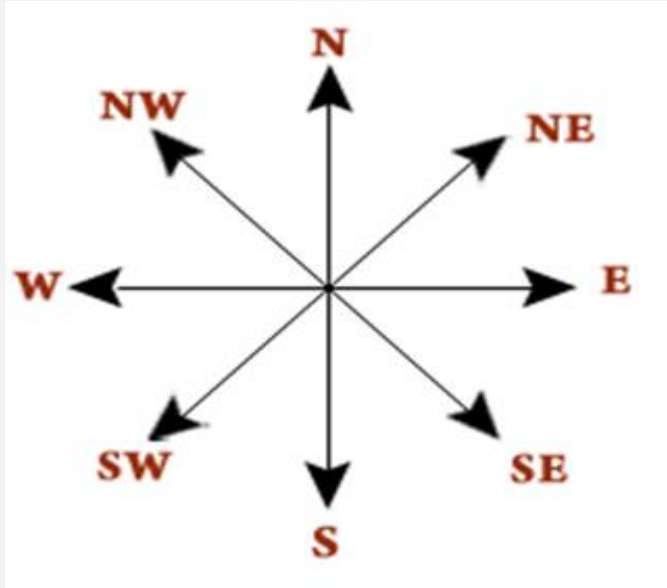
a. $W \$ X \# Y \% Z$

b. $X \& Y \# Z \% W$

c. $Y \& Z \% X \$ W$

d. $W \# Z \% Y \& X$

option b



Direction Sense

Points to remember

- At the time of sunrise, if a man stands facing the east, then his shadow will be towards the west.
 - At the time of sunset, the shadow of an object is always in the east.
 - If a man stands facing the North, at the time of sunrise his shadow will be towards his left and at the time of sunset, it will be towards his right.
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- Apply Pythagoras law to find the shortest distance.

Problem Types



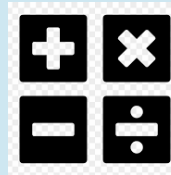
Distance Related



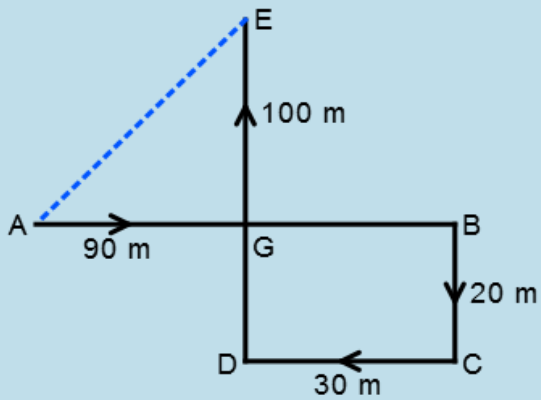
Left Right Movement



Casting of Shadows



Symbol Based



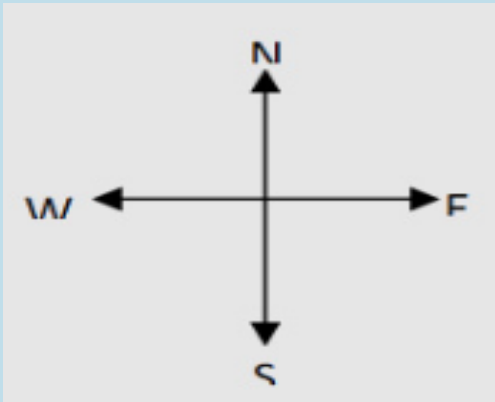
option b

11. A child is looking for his father. He went 90 meters in the East before turning to his right. He went 20 meters before turning to his right again to look for his father at his uncle's place 30 meters from this point. His father was not there. From here he went 100 meters to the North before meeting his father in a street. What is the smallest distance between the starting point and his father's position?

- a. 80 meters
- b. 100 meters
- c. 140 meters
- d. 260 meters

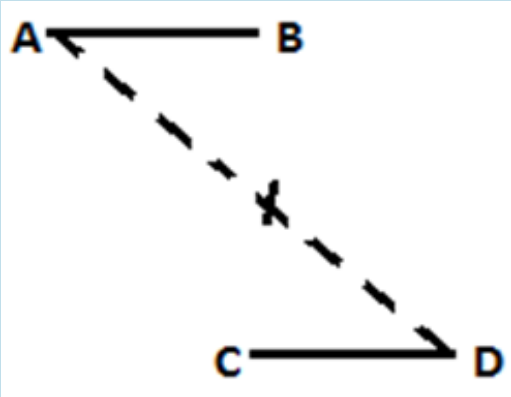
12. One morning after sunrise, Amrit was standing facing a pole. The shadow of the pole was forming on the left side. Which direction was Amrit facing?

- a. South
- b. East
- c. West
- d. North



option d

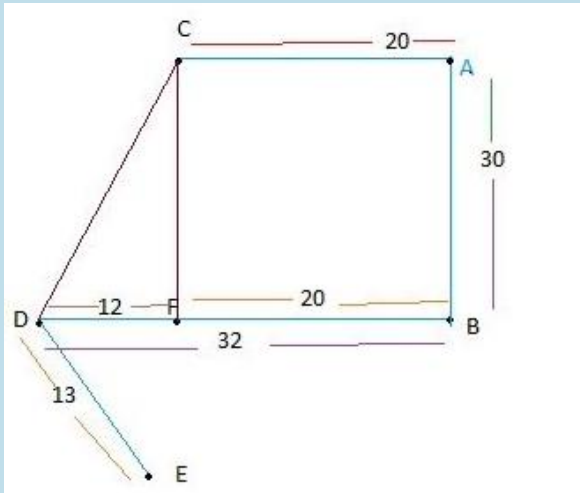
13. Five friends A, B, C, D and E are staying in the same locality. B's house is to the east of A's house and to the north of C's house. C's house is to the west of D's house. D's house is in which direction with respect to A's house?



option a

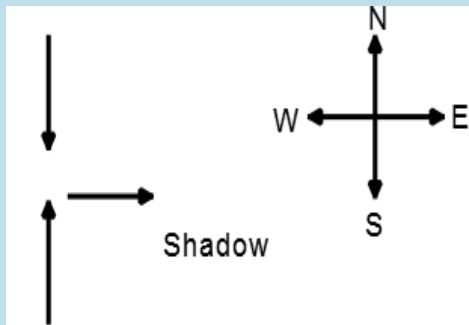
- a. South-East
- b. North-East
- c. East
- d. Data inadequate

14. A is 20 m away from C in east direction. B is standing in south of A and is facing south direction and distance between A and B is 30 m. Now to the right of B, covering 32 m towards west, D is standing. D is eating ice-cream standing on its position and facing north. After eating ice cream D starts moving towards south-east direction covering 13 m and reaches to the position of E. What is the distance between D and C and C is in which direction with respect to D?



option c

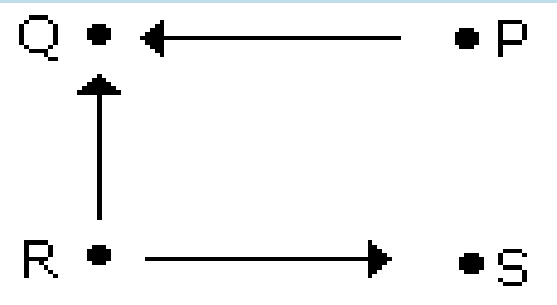
- a. 32.3m, north-west
- b. 31.7m, north-west
- c. 32.3m, north-east
- d. 31.7m, north-east



option d

15. Two friends – Shyam and Ram were sitting in a park in the evening. Both were facing each other. Shyam noticed that Ram's shadow was falling to his right. Which direction was Shyam facing?
- a. West
 - b. East
 - c. North
 - d. South

16. If $A \times B$ means A is to the south of B ;
 $A + B$ means A is to the north of B ;
 $A \% B$ means A is to the east of B ;
 $A - B$ means A is to the west of B ;
then in $P \% Q + R - S$, S is in which direction with respect to Q ?



option b

- a. South-West
- b. South-East
- c. North-East
- d. North-West

THANK
YOU

GOWRY S KUMAR
CIR