

Target RBI Grade B 2023

Top 150 Questions

Reasoning ✓

Lecture 4 – Direction Sense

2017-2022

350



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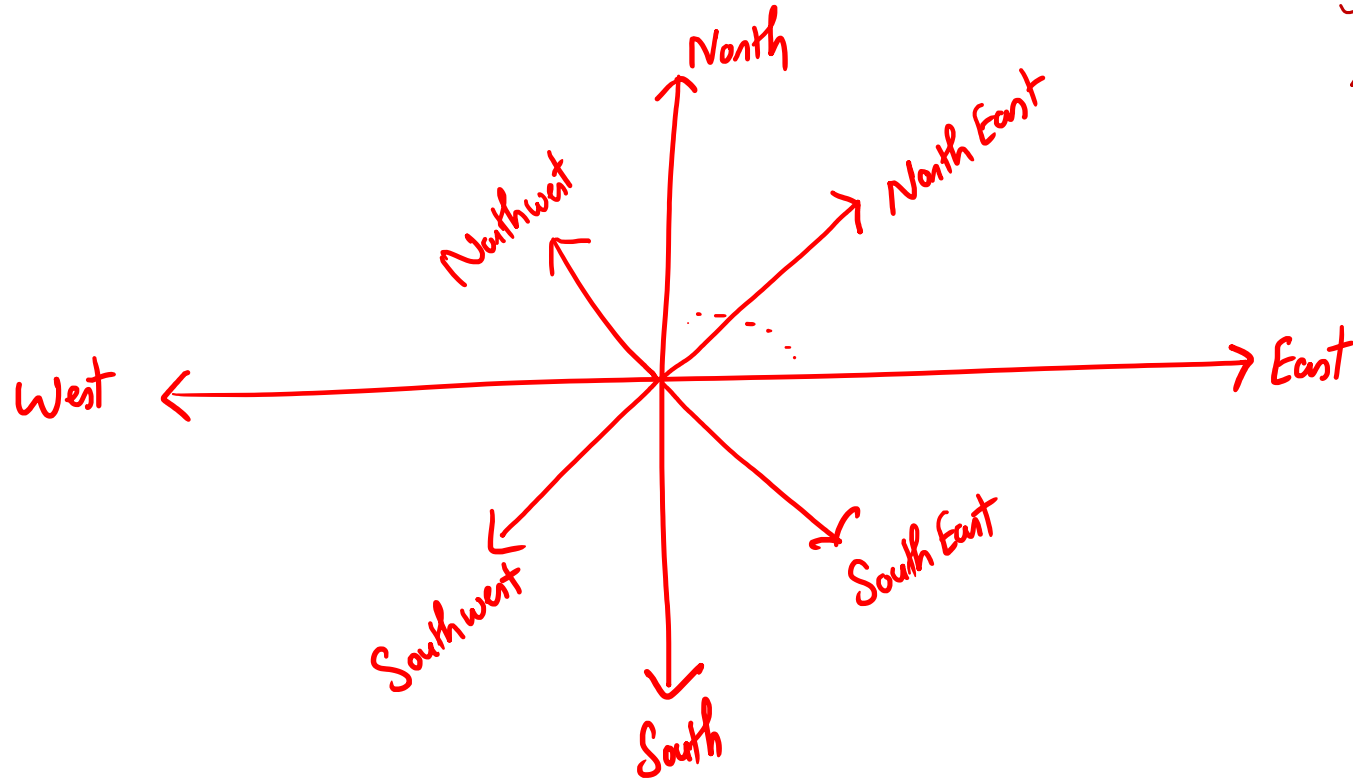
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## What we have to cover in Direction Sense ✓

- Knowledge of basic directions and sub directions
- Concept of movement, angle and basic triangle
- Concept of shadow ✓
- Coded type question ✓
- Puzzle on Direction Sense ✓



# Direction



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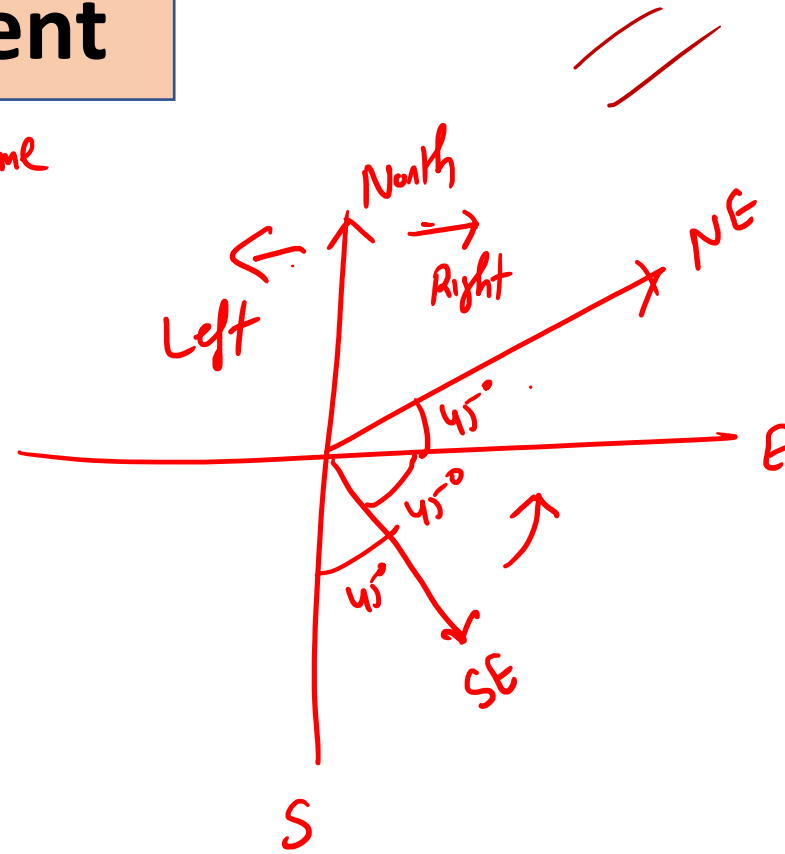
# Movement

Right  
↓  
Clockwise  $90^\circ$

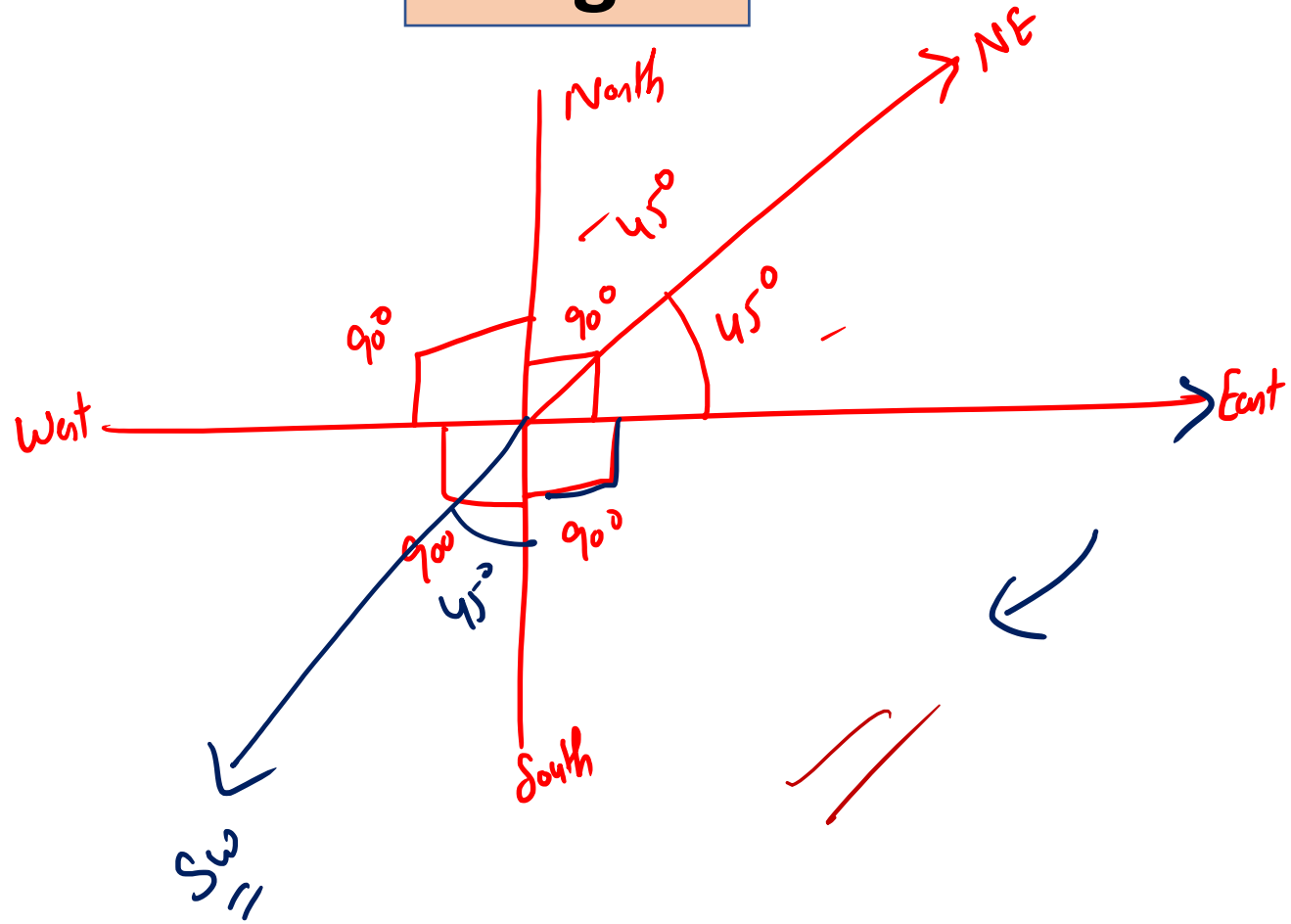
Left  
↓  
Anticlockwise  $90^\circ$

Self Assume  
=

South East    Left → ?  
North East  
//



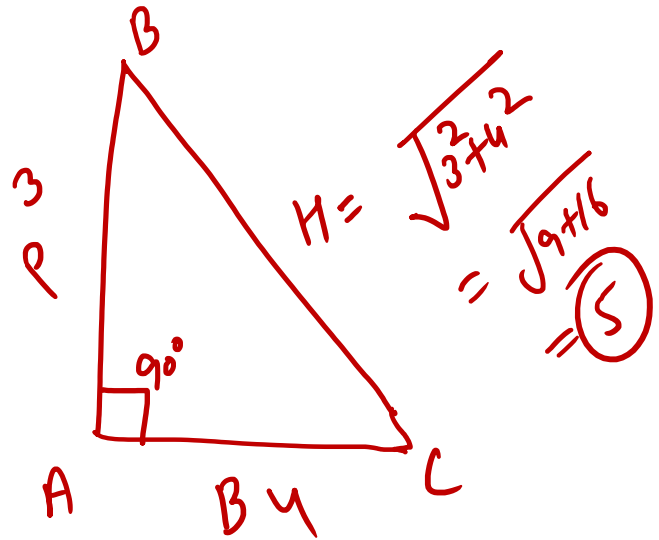
# Angle



East 135° CW = ?  
Southwest

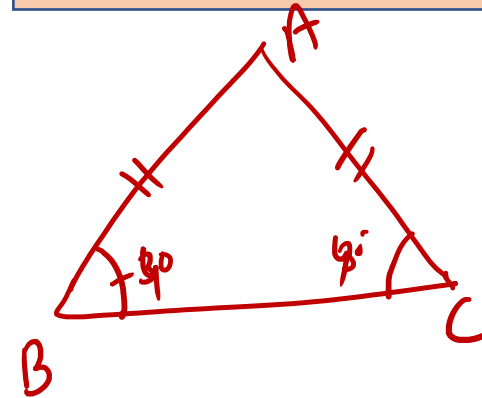


## Right Angle Triangle

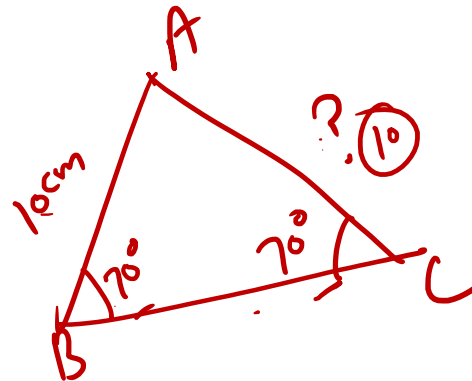


$$P^2 + B^2 = H^2$$
$$H = \sqrt{P^2 + B^2}$$

## Isosceles Triangle

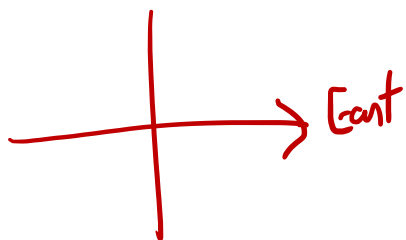
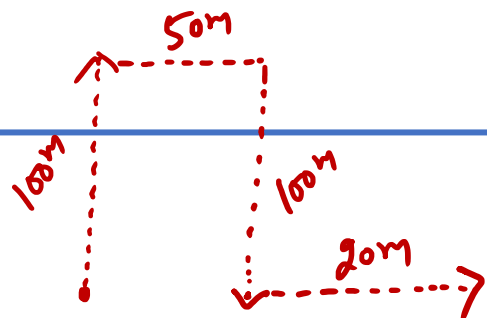


$$AB = AC$$
$$\angle B = \angle C$$

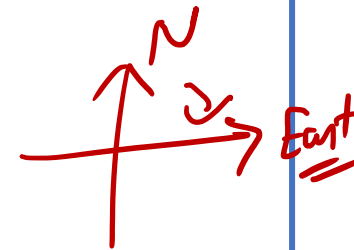
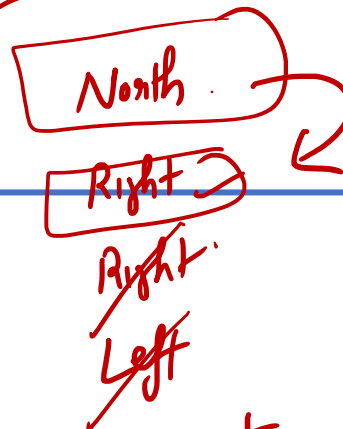


Q1). A person is going towards north after walking 100m he turns to his right and walks 50m again he turns to his right and walk 100m and finally he turns to his left and walk 20m, now in which direction is he moving or facing ?

- A. East
- B. West
- C. North
- D. South



Tricks



Movement

2R | 2L | 180° → opposite  
 4R | 4L | 360° → Same



Q2). A person is going towards south after walking 10m he turns to his right and walks 5m again he turns to his left and walk 10m again he turns to his left and walk 15m and finally he turns to his right and walk 20m, now in which direction is he moving or facing ?

- A. East
- B. West
- C. North
- D. South

South

~~Right~~

~~Left~~

~~Left~~

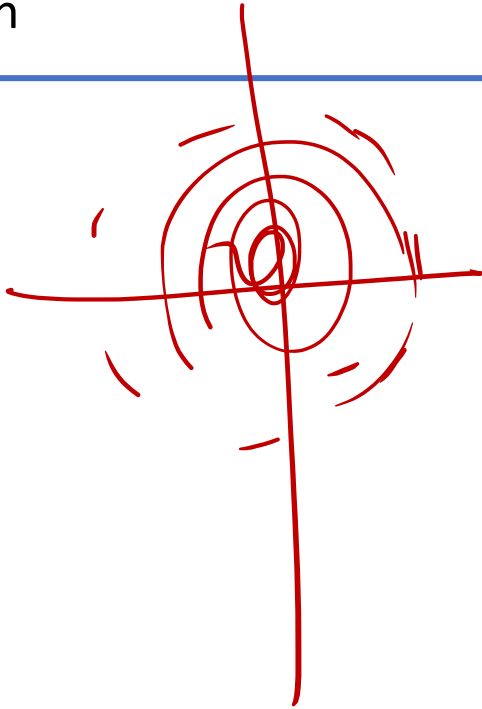
~~Right~~





Q3). A person is going towards east he turns 300 times to his right and again 200 times to his left, now in which direction is he moving or facing.

- A. East
- B. West
- C. North
- D. South



East

Right = 300  $\rightarrow$  ~~200~~ + 100  
Left = ~~200~~

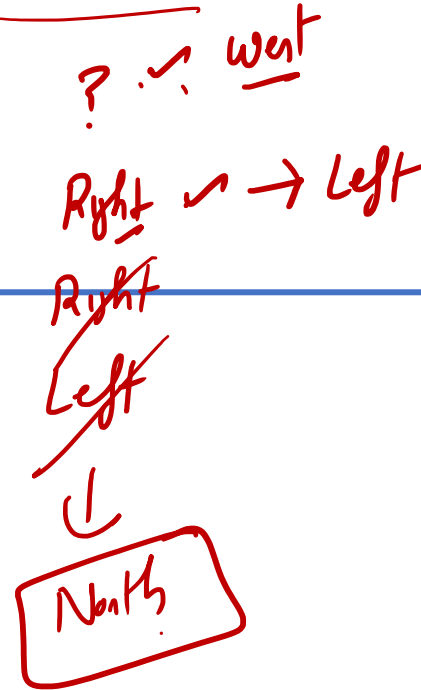
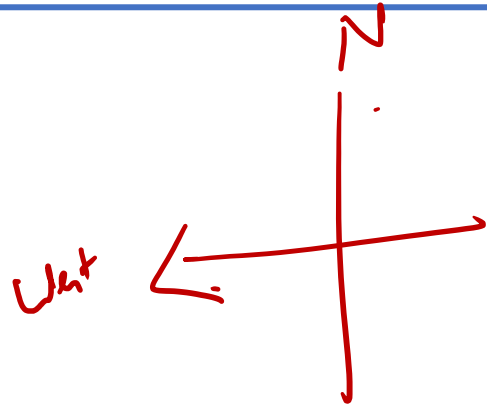
~~100~~ - ~~4~~ - East

4R/4L/360°  $\rightarrow$  Same



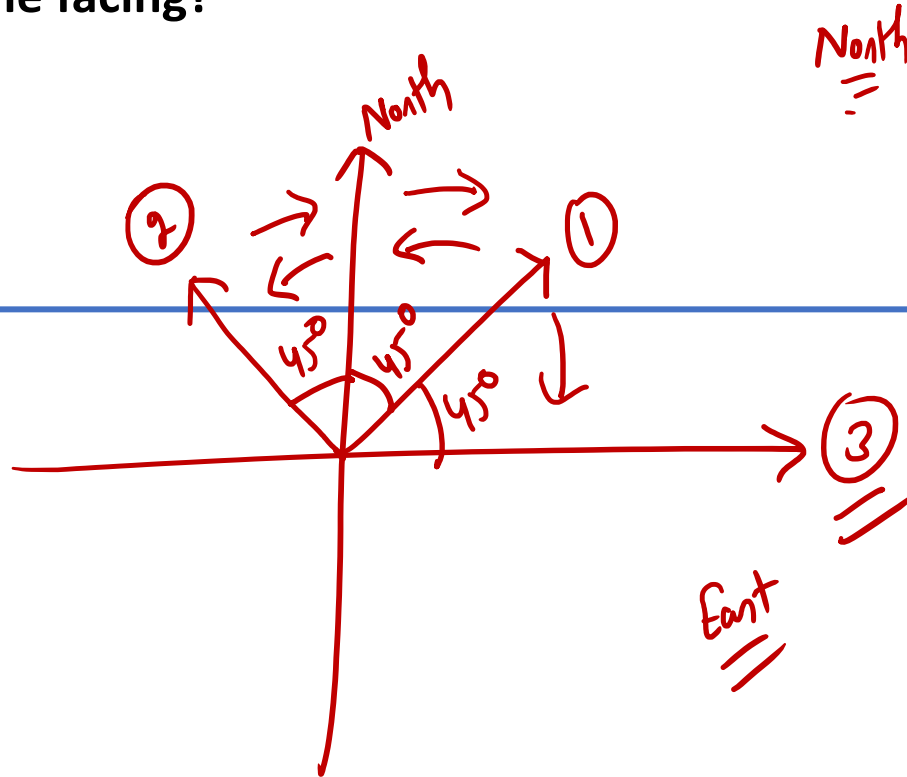
Q4). A person turns to his right after walking 100m straight and walks 50m again he turns to his right and walk 100m. And finally he turns to his left and walks 20m, if now he is moving towards north then in which direction did he starts to walk?

- A. East
- B. West
- C. North
- D. South

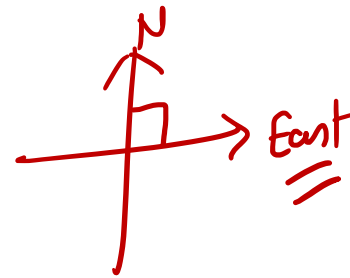


Q5). A person is facing north, first he turns  $45^\circ$  in the clockwise direction then he turns  $90^\circ$  in the anticlockwise direction and finally he turns  $135^\circ$  in the clockwise direction. Now in which direction is he facing?

- A. East
- B. West
- C. North
- D. South



$$\begin{aligned} \text{CW} &\rightarrow 45^\circ + 135^\circ = 180^\circ \\ \text{ACW} &\rightarrow 90^\circ = 90^\circ \end{aligned} \quad \left. \vphantom{\begin{aligned} \text{CW} &\rightarrow 45^\circ + 135^\circ = 180^\circ \\ \text{ACW} &\rightarrow 90^\circ = 90^\circ \end{aligned}} \right) 90^\circ \text{ CW}$$



Q6). A person is facing east, first he turns 45° in the clockwise direction then he turns 135° in the anticlockwise direction again he turns 135° in the anticlockwise direction and finally he turns 45° in the clockwise direction. Now in which direction is he facing?

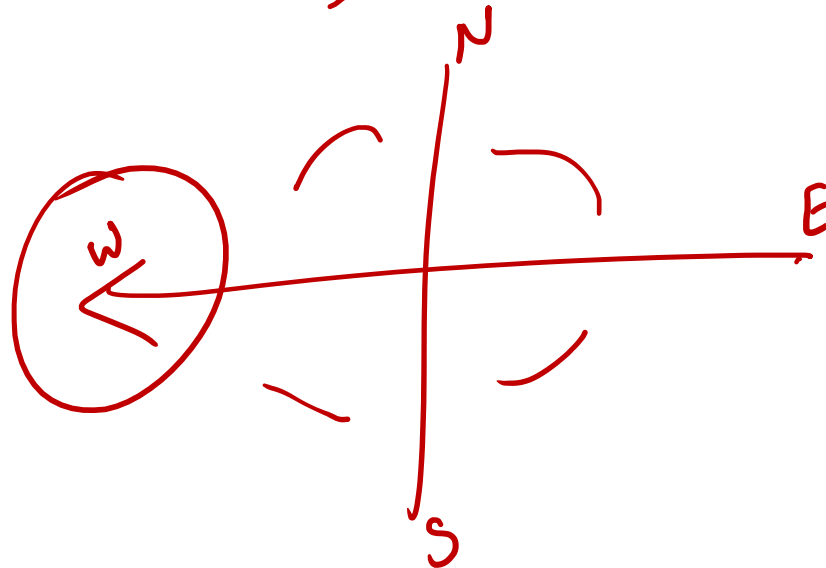
- A. East
- B. West
- C. North
- D. South

East

$$CW = 45^\circ + 45^\circ = 90^\circ$$

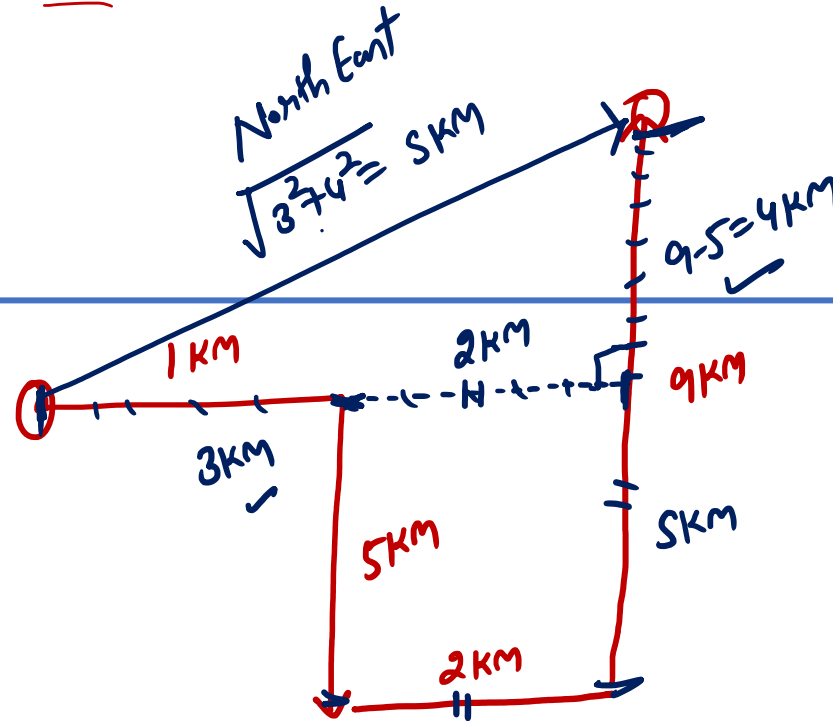
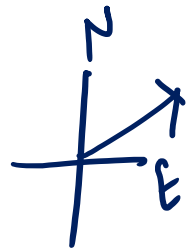
$$ACW = 135^\circ + 135^\circ = 270^\circ$$

180° ACW  
= 180°  
Opposite



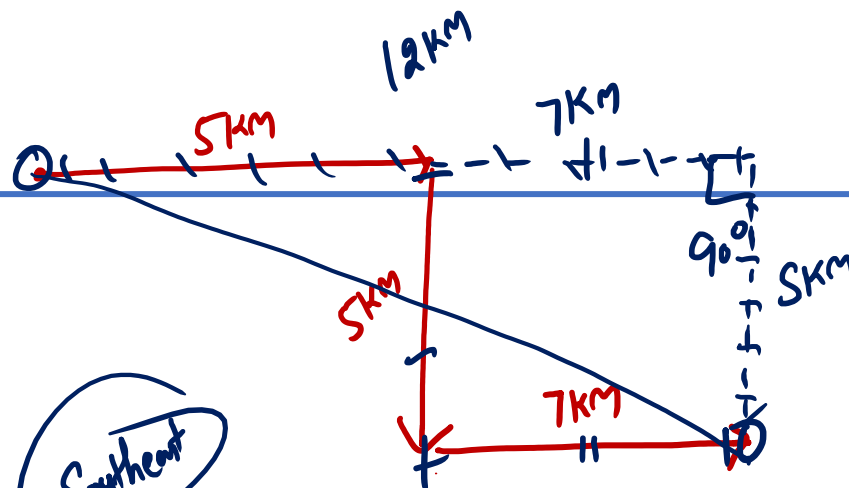
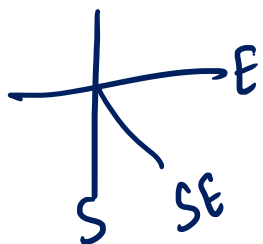
Q7). A person walks 1 km towards east then he turn to south and walks 5 km again he turns towards east and walks 2 km and finally he turn towards north and walks 9 km. Now how far and in which direction is he from the starting point?

- A. 3km North east
- B. 5km North East
- C. 3km South East
- D. 5km South East



Q8). A person walks 5 km towards east then he turns to south and walks the same distance and finally he turns to his left and walks 7 km. Now how far and in which direction is he from the starting point?

- A. 13km North east
- B. 5km South East
- C. 13km South East
- D. 13km South West

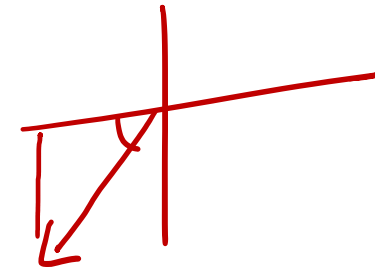
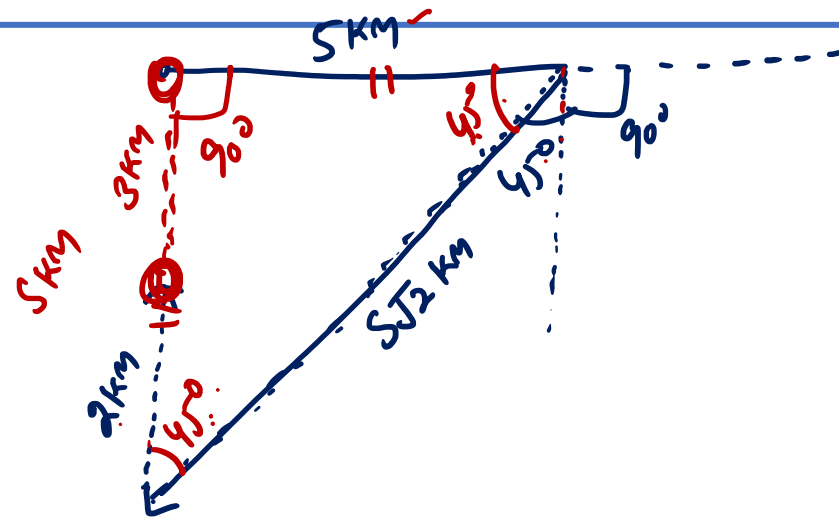


Southeast

$$\sqrt{12^2 + 5^2} = \sqrt{169} = 13 \text{ km}$$

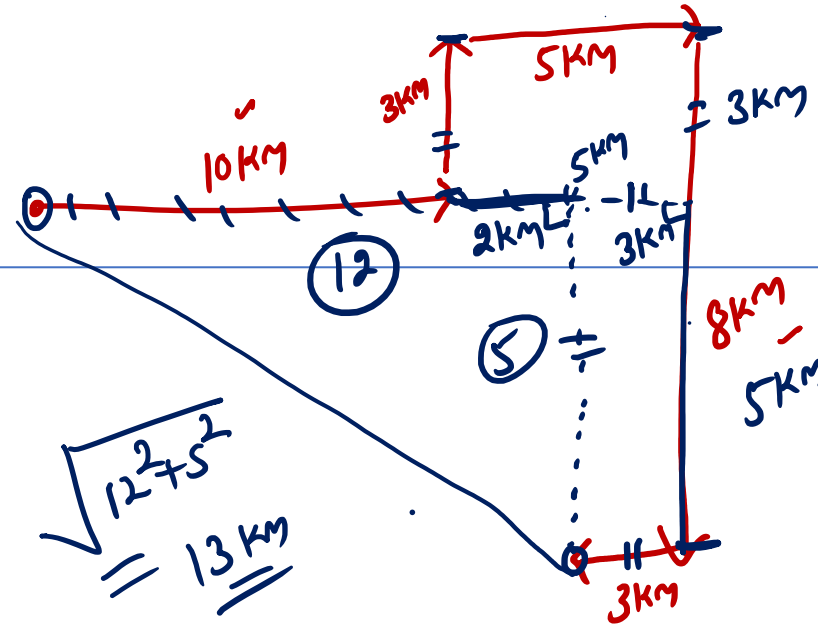
Q9). A person walks 5 km towards east then he turns to his right an angle of  $135^\circ$  and walks  $5\sqrt{2}$  km and finally he turns to north & walk 2 km . Now how far and in which direction is he from the starting point?

- A. 3 km North
- B. 3 km South
- C. 3 km East
- D. 3 km West



Q10). Santosh travels 10 km towards East, then he takes left turn and travels 3 km. He then takes right turn and travels 5 km, he again takes right turn and travels 8 km and finally takes right turn one more time and travels 3 km. How far is he from his starting point and in which direction?

- (1) 12 km towards South-East
- (2) 13 km towards North-West
- (3) 12 km towards North-West
- (4) 13 km towards South-East
- (5) 13 km towards North-East



South East

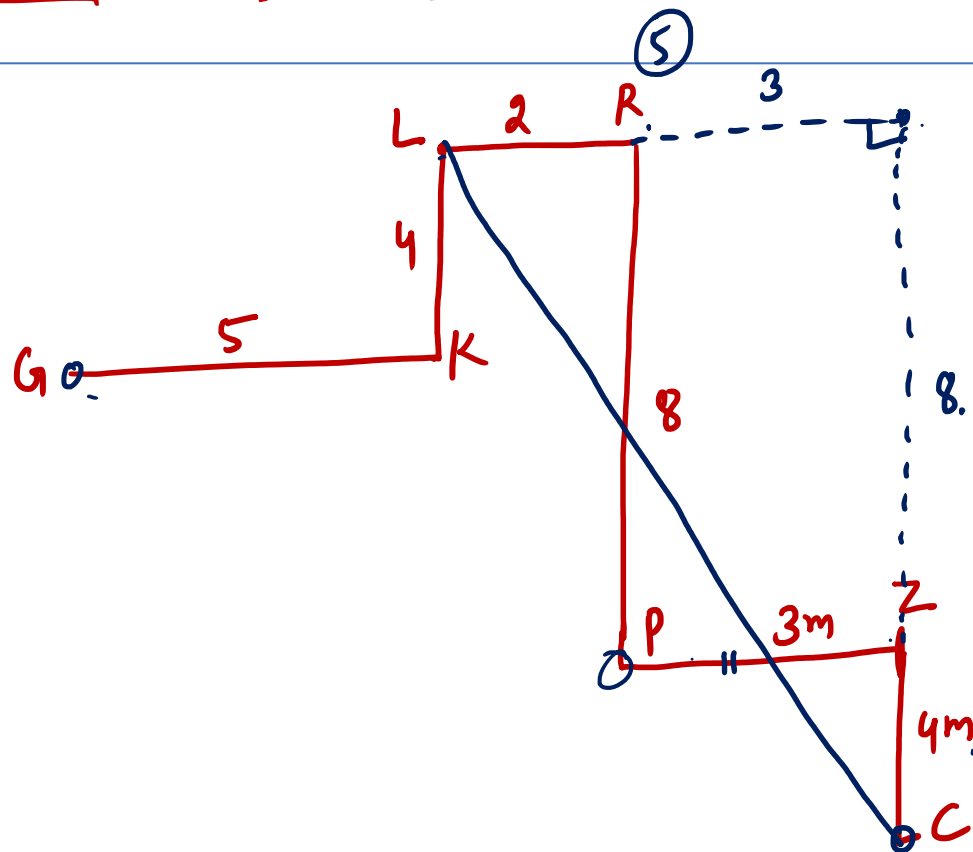
$$\sqrt{12^2 + 5^2} = 13 \text{ km}$$





**Direction: Study the information given below and answer the questions based on it.**

Point K is 5m to the East of Point G and is 4m to the South of Point L. Point R is 8m to the North of Point P. Point L is 2m to the West of Point R. Point Z is 3m East of Point P and is 4m to the North of Point C.



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

$$= \sqrt{169}$$

$$= 13$$

$$\frac{R}{P} = 8$$



**Q.11) In which of the following direction is Point C with respect to Point G?**

- [1] South
- [2] North-West
- [3] East
- [4] South-East
- [5] None of the above

**Q.12) What is the shortest distance between Point L and Point C?**

- [1] 13m
- [2] 8m
- [3] 5m
- [4] 11m
- [5] None of the above

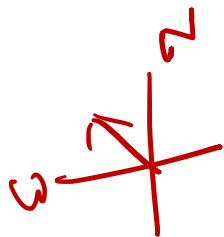
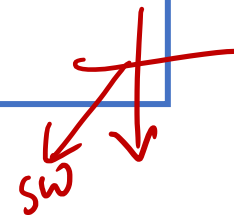
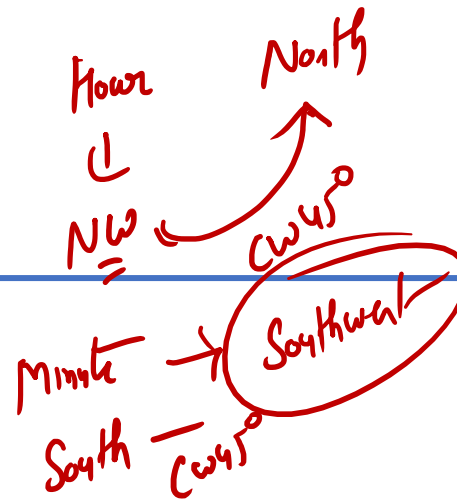
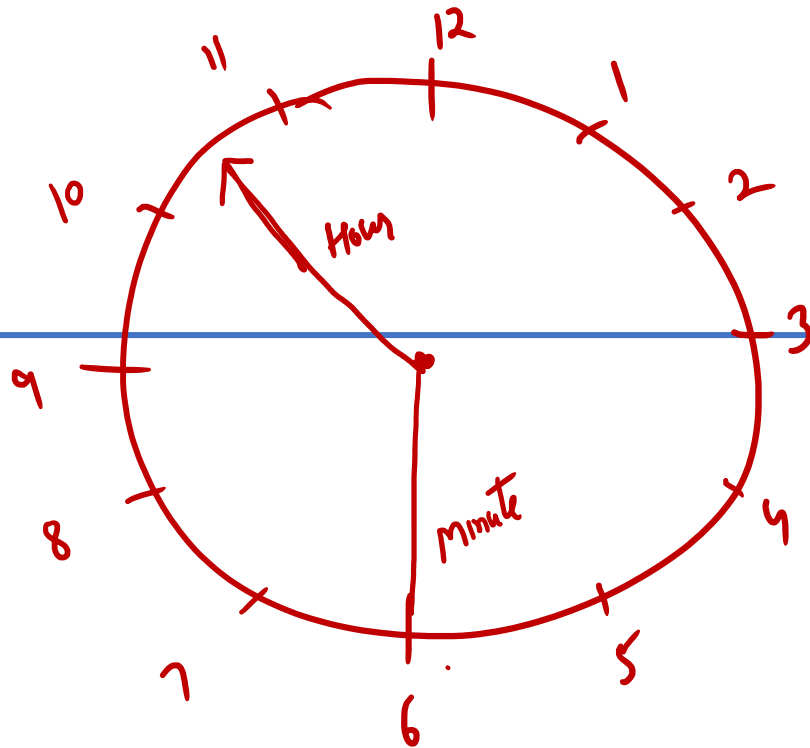
**Q.13) In which of the following direction is Point G with respect to Point P?**

- [1] ~~South~~
- [2] North-West
- [3] East
- [4] South-East
- [5] None of the above



Q14). It is 10:30 o'clock. If at this time hour hand point towards north. Then in which direction minute hand be?

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



Q15). In a morning two friends Kalin & Ritesh were talking to each other face to face. If at this time the shadow of Kalin fell exactly to the left of Ritesh then in which direction Kalin was facing?

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



Person

Ritesh



Sun



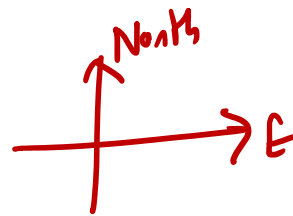
East



Left/Right

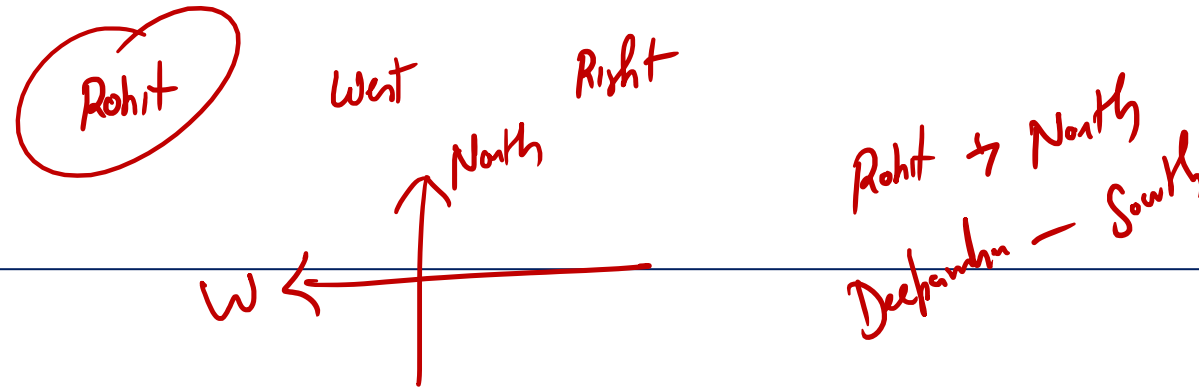
Left

Ritesh → North  
Kalin → South



Q16). In a evening two friends Deepanshu & Rohit were talking to each other face to face. If at this time the shadow of Deepanshu fell exactly to the right of Rohit then in which direction Rohit was facing?

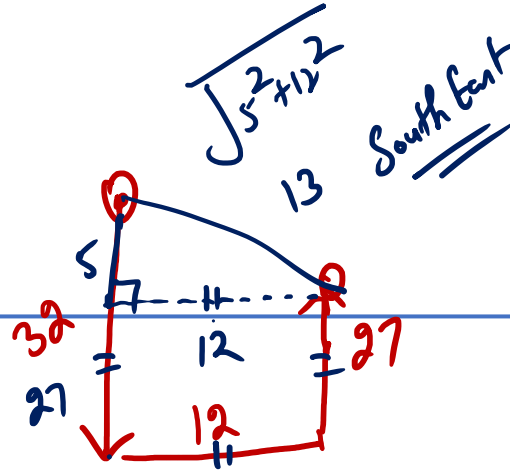
- a. North
- b. South
- c. East
- d. West



Q17. Nishant started walking from his home at 7.00 AM and his shadow was on his right. After walking for 32 m he took a left turn and walks for 12 m. Thereafter he again took a left turn and walks 27 m and stopped there. Find the shortest distance of the initial and final position of Nishant and in which direction is he with respect to his starting point?

- A. 25 m, South
- B. 13 m, Northwest
- C. 25 m, Northeast
- D. 13 m, Southeast
- E. 17 m, West

East Right  
South



Each of the following questions is based on the following information

$A \# B$  means B is at 1 metre to the right of A.

$A \$ B$  means B is at 1 metre to the North of A.

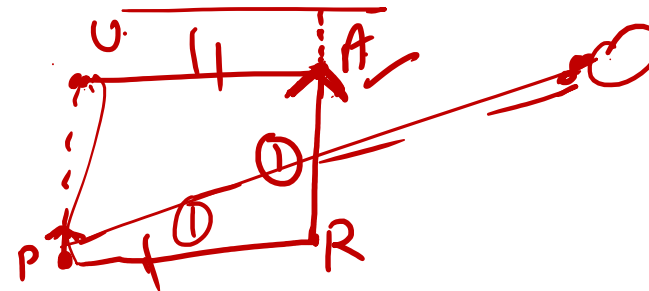
$A * B$  means B is at 1 metre to the left of A.

$A @ B$  means B is at 1 metre to the south of A.

In each question first person from the left is facing North.

Q18. According to  $P \# R \$ A * U$ , in which direction is U with respect to P?

1. East
2. West
3. North
4. South
5. None of these



Directions : Read the given instructions carefully and answer the questions beside-

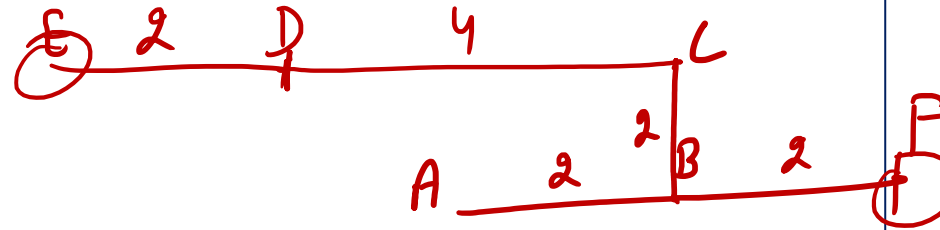
$P + Q$  states that P is 2 m East Of Q

$P \wedge Q$  states that P is 2 m South Of Q

$P \& Q$  states that P is 4 m East Of Q

$P - Q$  states that P is 2 m West Of Q

$P / Q$  states that P is 2 m North Of Q



Q19). Read the following information carefully and answer the questions beside-

$A - B \wedge C \& D + E, F + B$

F is in which direction with respect to E?

A North

B South

C North West

D South East

E South



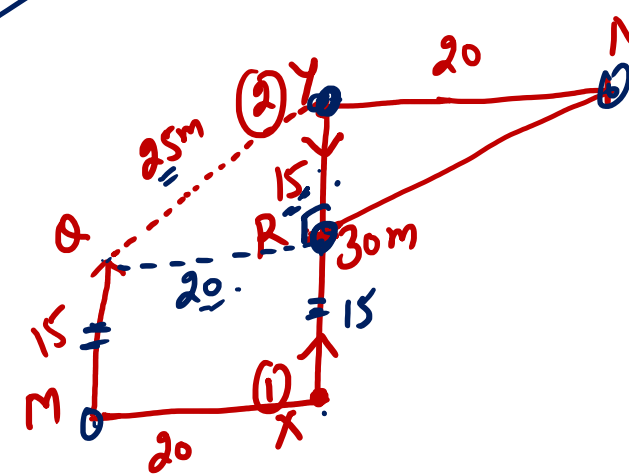


**Directions (20-21):** Read the following information carefully and answer the given questions.

Two persons viz. person 1, person 2 is standing at points X and Y respectively. Both persons face each other where person 2 faces towards south. The distance between the two persons is 30 meters. Person 1 and person 2 turned to their left and walked for a distance of 20 meters to reach points M, N respectively. From point M, person 1 turned to his right and walked for a distance of 15 meters to reach point Q. From point N, person 2 walked a certain distance to reach his destination point R, which is 15 meters to the south of point Y. From point Q, person 1 walked for a distance of 25 meters to the north-east and reached his destination.

$$20^2 + 15^2 = 25^2$$

$$400 + 225 = 625$$



**Q20. How far is the destination of person 1 from the destination of person 2?**

- a) 15 meters towards south
- b) 15 meters towards north
- c) 10 meters towards north-west
- d) 10 meters towards west
- e) cannot be determined

**Q21. In which direction is point N with respect to point M?**

- a) south
- b) south-west
- c) north
- d) north-east
- e) cannot be determined



Study the following information carefully and answer the below questions-

A@B(14m) → A is 10m north of B

A#B(15m) → A is 19m south of B

A\$B(10m) → A is 7m east of B

A%B(12m) → A is 14m west of B

@% → north-west, # \$ → Southeast

Z\$M#H; H@R(12); Y#Z(5); R\$O(15); O@P(13); Z%N(8); N#C\$H;

V#X(1); L%H(4); V\$P(23); X%Y(1)

@	North	-4
#	South	+4
\$	East	-3
%	West	+2

Home Work  
↓  
Comment

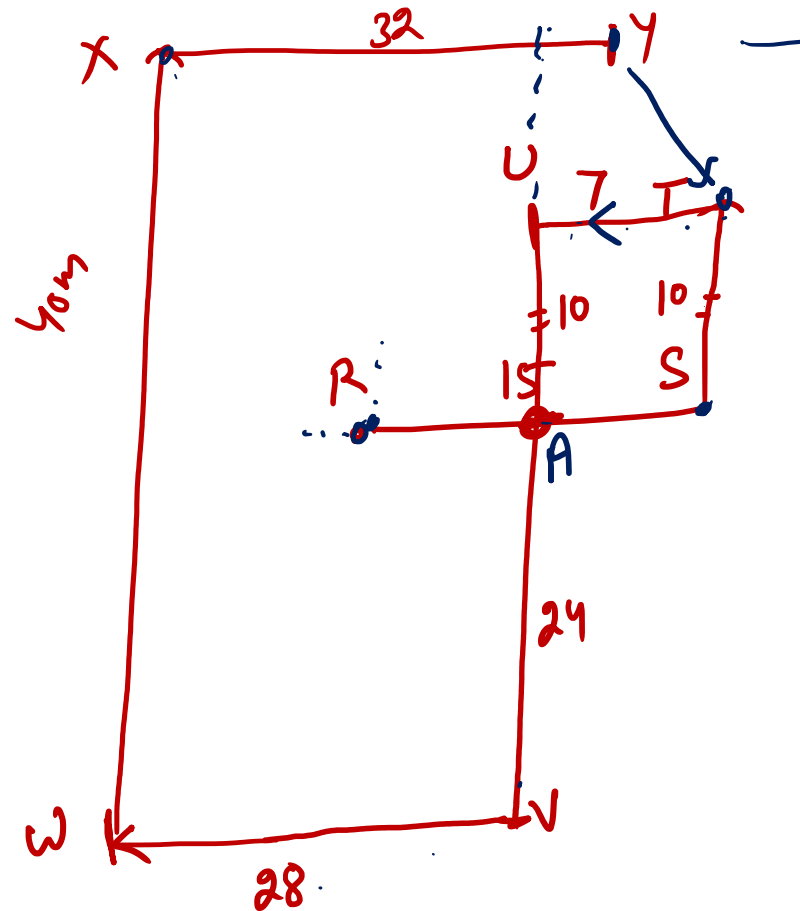
Q.22) What is the direction of Y with respect to H?

- a) @%
- b) # \$
- c) Can't be determined
- d) # %
- e) @ \$



Direction (23 – 26) : Study the following information carefully and answer the question based on it.

Raga started walking in East direction from point R. After walking 15 m she reached point S, from there she takes a left turn and walks 10 m to reach point T. From T, she turns left and walk 7 m and reaches point U. Then, she turns left and walks 34 m to reach point V. From point V she turns right and walks 28 m. Now she reached point W and from there she turns right and walks 40 m to reach point X. From point X she turns right and walks 32 m to reach point Y.



Q23. What is the direction of X with respect to R?

- A. North
- B. East
- C. North – West
- D. West
- E. South – West

Q24. If point A is the point of intersection of line segment RS and UV then which of the following is/ are true about A?

- A. Point Y is North of A
- B.  $AV + AU = XW - 6$   $34 = 40 - 6$
- C. A is to the North of U
- D. All are true
- E. None is true.

Q25. What is total distance travelled by Raga in west direction?

- A. 64 m
- B. 35 m
- C. 45 m
- D. 28 m
- E. 56 m

Q26. What is the direction of point T with respect to Y?

- A. South
- B. North – West
- C. South – East
- D. South – West
- E. North – East



Q.27) T is 15m north of M. H is 9m south G which is 15m east of M. L is 20m west of H. V is north of O and 5m east of S which is 5m north of L. O is west of H. Then what is direction and distance of V with respect to T?

- A. 14m, north
- B. 19m, south
- C. 19m, north
- D. 24m, south
- E. 24m, north

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Home Work  
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27

*Thank You*

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