CA FOUNDATION QUANTS

Direction Test

PRECISE NOTES

DIRECTION TEST | CA FND | PRECISE NOTES

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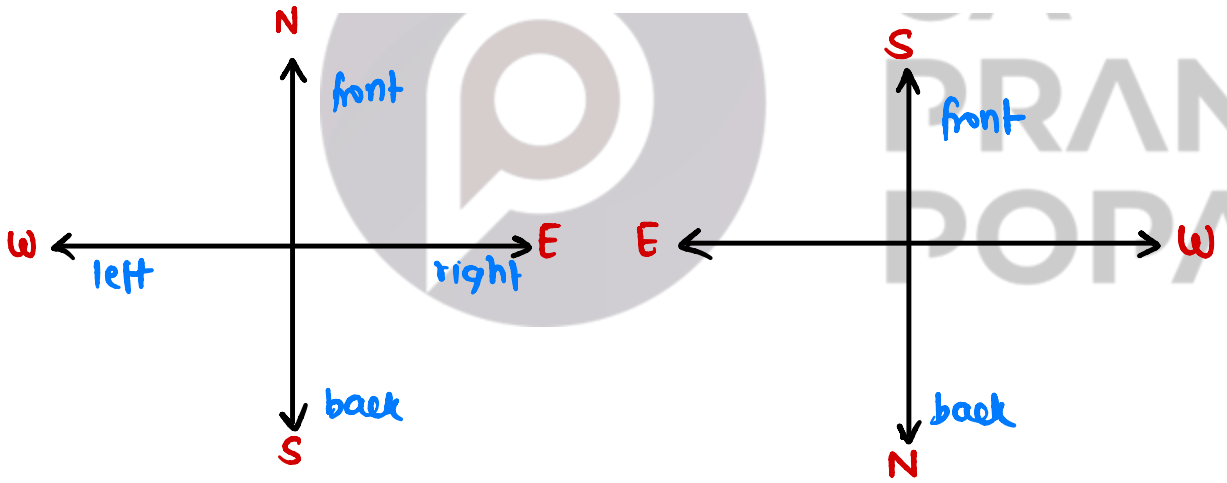
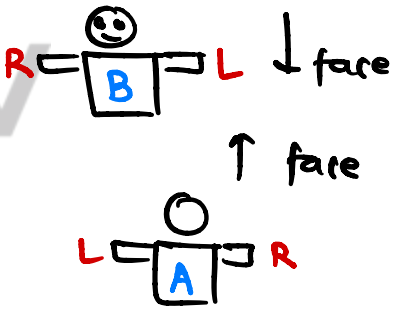
Direction Test

Question Requirements	• Here questions consist of a sort of direction puzzle. • A successive follow-up of direction is formulated and • the students are required to ascertain the final direction or • direction with respect to starting points or • other related problems.

Types of Question

Type	Requirement	Remark
Type I	Finding final direction	Distance can be ignored
Type II	Finding the direction with respect to original point	Distances are important
All other varieties	Multiple	No Remark

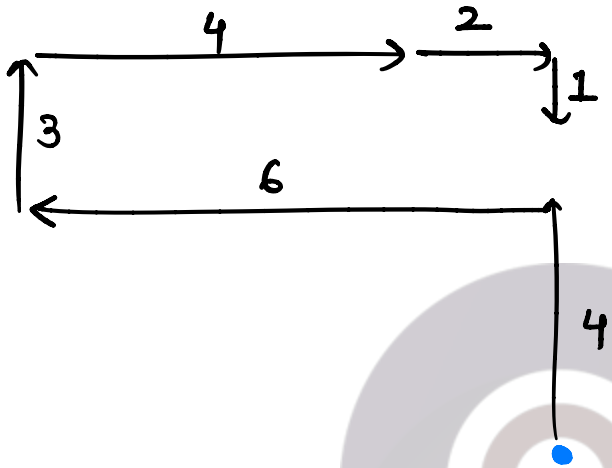




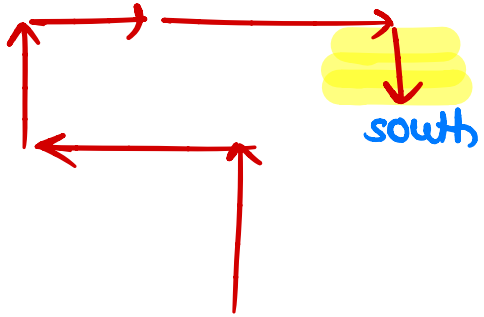
sun rises in east
sun set in west

(1) *A man starts from a point, walks 4 miles towards north and turns left and walks 6 miles, turns right and walks for 3 miles and again turns right and walks 4 miles and takes rest for 30 minutes. He gets up and walks straight 2 miles in the same direction and turns right and walks one mile. What is the direction he is facing?*

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

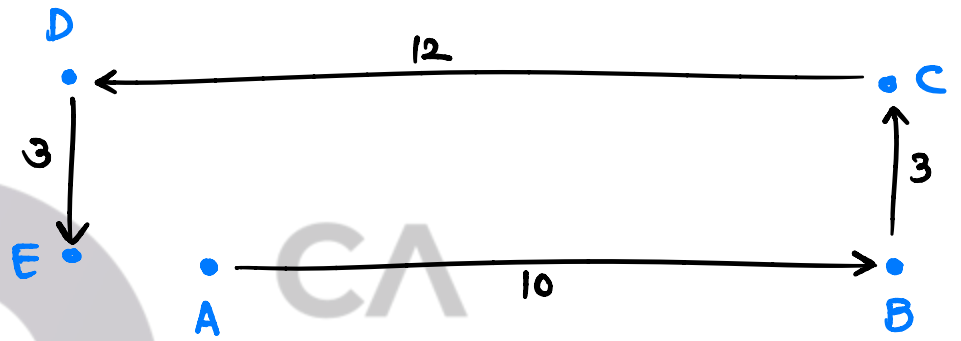


Final direction is South



(2) *Arun started from point A and walked 10 kms East to point B, then turned to North and walked 3 kms to point C and then turned West and walked 12 kms to point D, then again turned South and walked 3 kms to point E. In which direction is he from his start point?*

a.	*East*	*b.*	*South*
c. ✓	*West*	*d.*	*North*

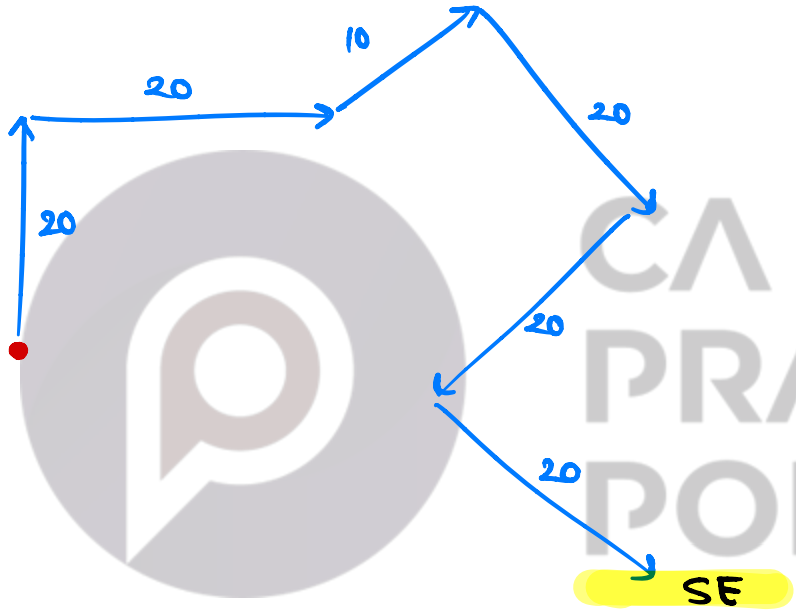


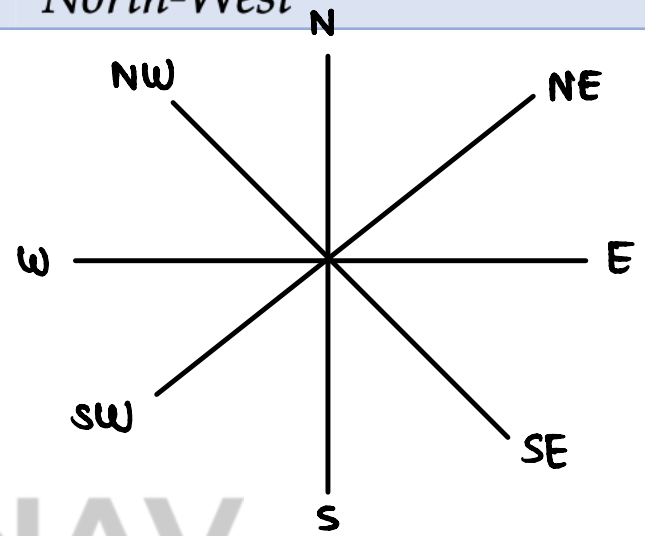
person is in west direction from starting point

ICAI SM

(4) *Raju facing North and moves 20 kms, then he turned to his right and moves 20 kms and then he moves 10 kms in North-East, then he turned to his right and moves 20 kms and then he turned to his right and moves 20 kms and again he turned to his left and moves 20 kms. Now in which direction Raju is facing?*

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

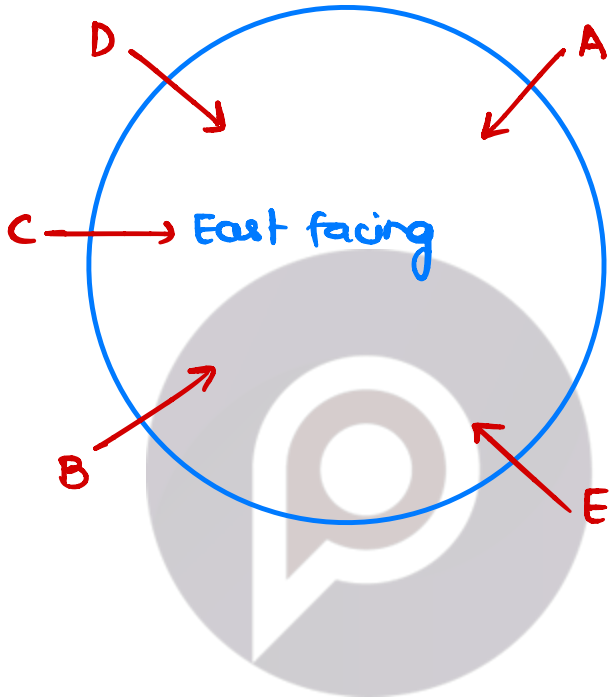


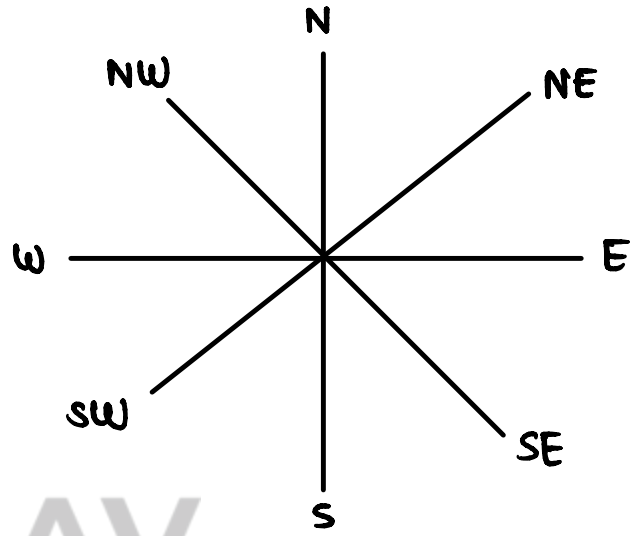


ICAI SM

(5) *Five boys A, B, C, D and E are sitting in a park in a circle. A is facing South-West, D is facing South-East, B and E are right opposite A and D respectively and C is equidistant between D and B. Which direction is C facing?*

a.	*West*	*b.*	*South*
c.	*North*	*d.*	*East* ✓

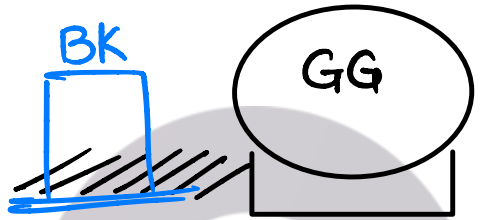




(6) *Daily in the morning the shadow of Gol Gumbaz falls on Bara Kaman and in the evening the shadow of Bara Kaman falls on Gol Gumbaz exactly. So in which direction is Gol Gumbaz to Bara Kaman?*

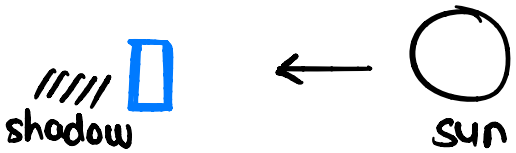
a. ✓	*Eastern side*	*b.*	*Western side*
c.	*Northern side*	*d.*	*Southern side*

Morning:

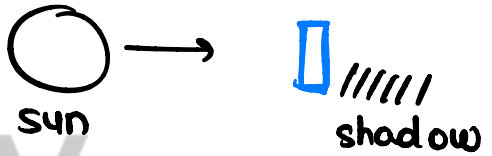


Gol Gumbaz is east side to Bara Kaman

Morning:



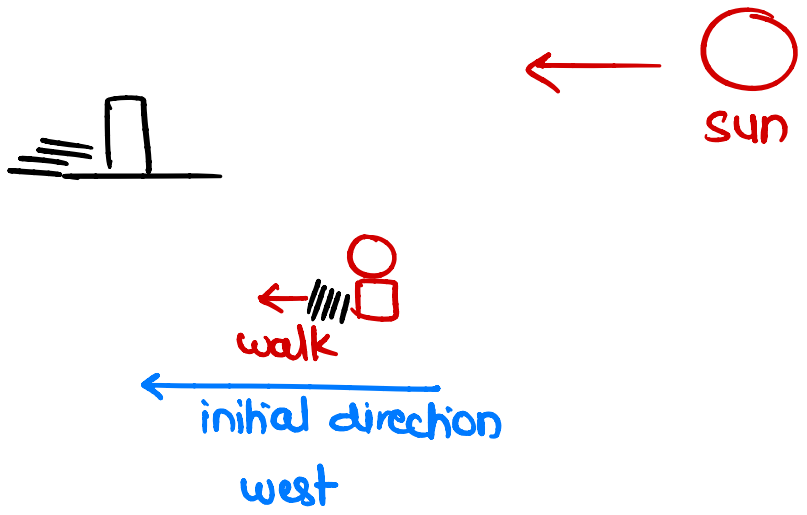
Evening:

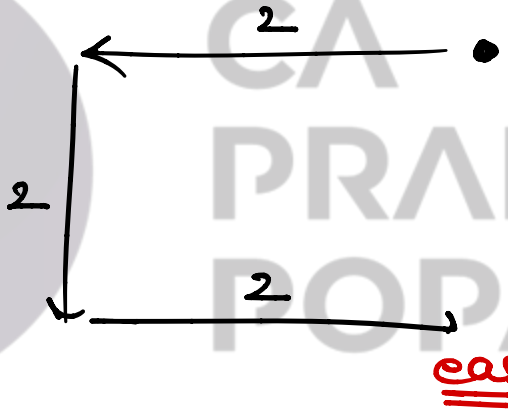


PYQ Jan 2025

(95) In the morning Anika started walking from a point where her shadow falls in front of her. She walked 2 kms and then turned left and walked 2 kms. Again she turned left and walked 2 kms. In which direction is she now facing?

a. East ✓
b. West
c. South
d. North

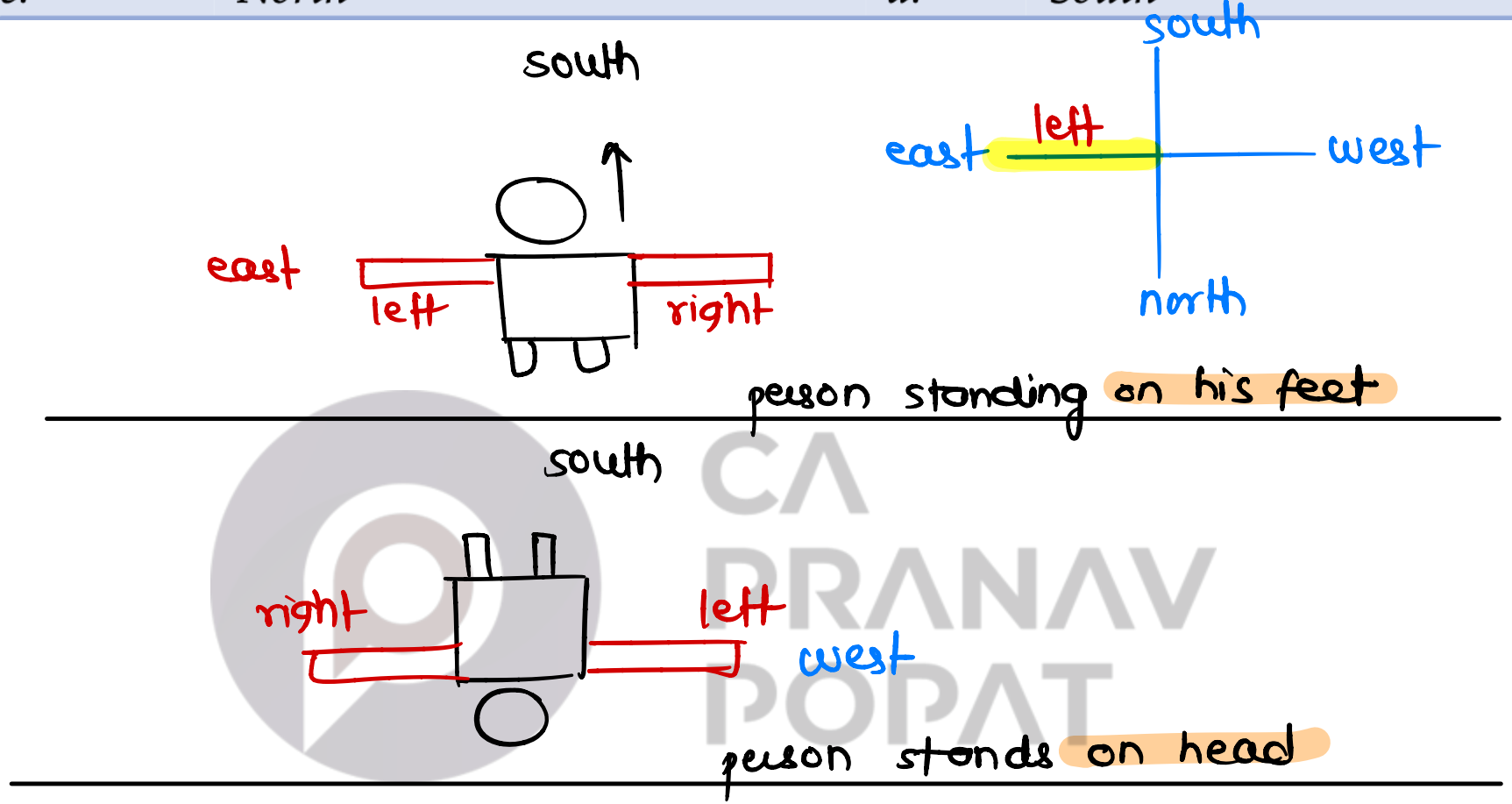




ICAI SM

(7) *If X stands on his head with his face towards south, to which direction will his left hand point ?*

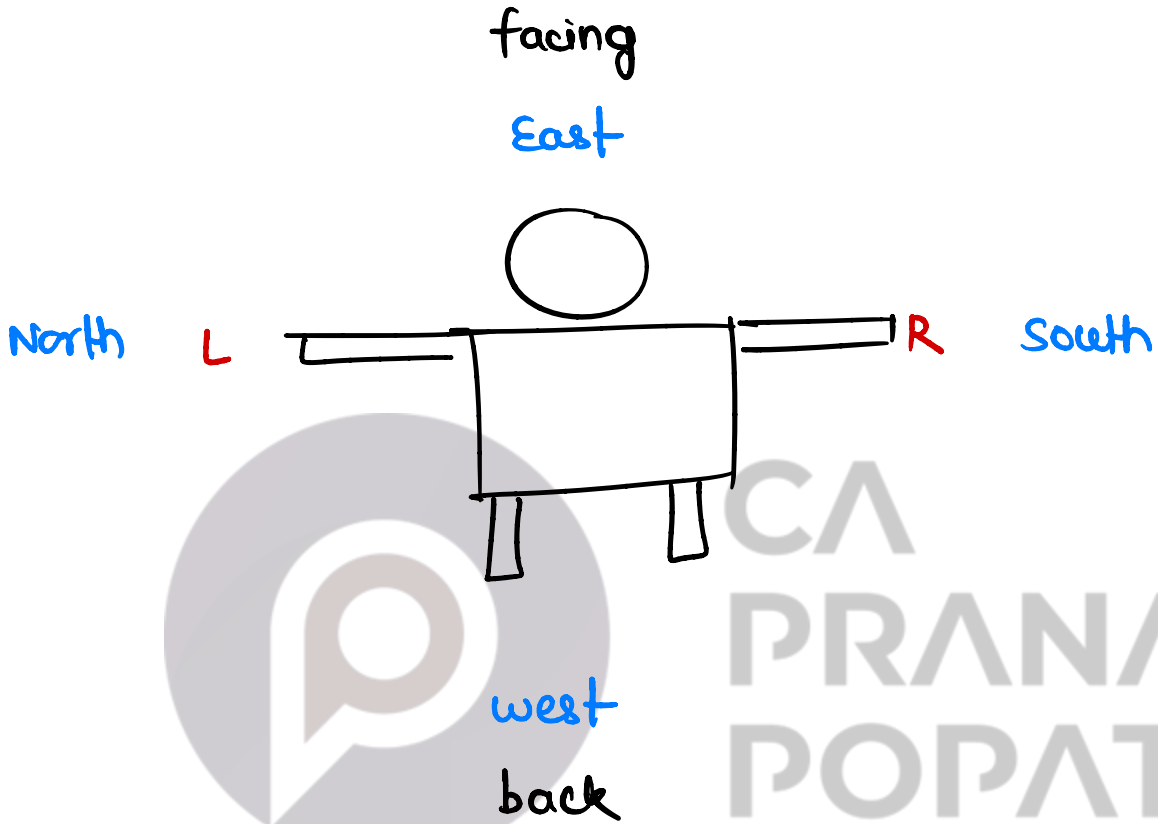
a.	East	b. ✓	West
c.	North	d.	South

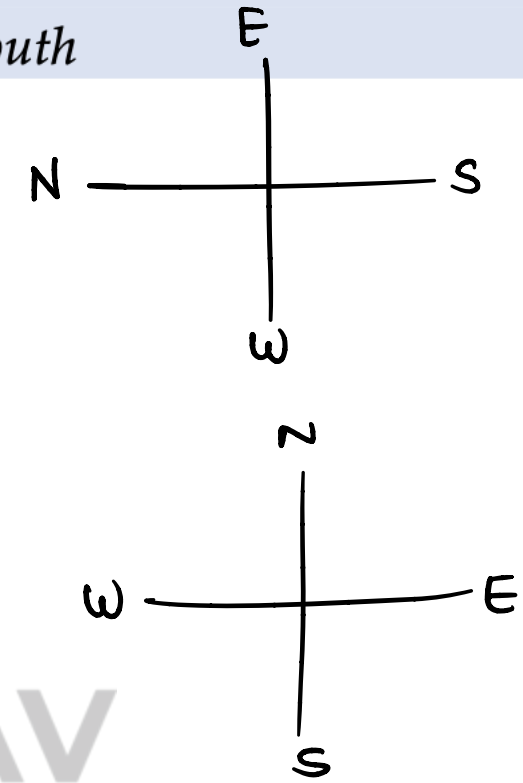


PYQ May 18

(8) *I stand with my right-hand extended side-ways towards South. Towards which direction will my back be?*

a.	*North*	*b.* ✓	*West*
c.	*East*	*d.*	*South*





ICAI SM Example

(10) *Gopal started walking 2 kms straight from his school. Then he turned right and walked 1 km. Again, he turned right and walked 1 km to reach his house. If his house is south-east from his school, then in which direction did Gopal start walking from the school?*

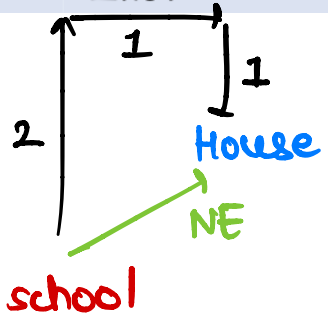
X a. North

X b. West

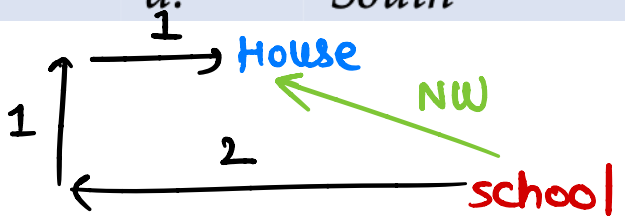
c. East ✓

d. South

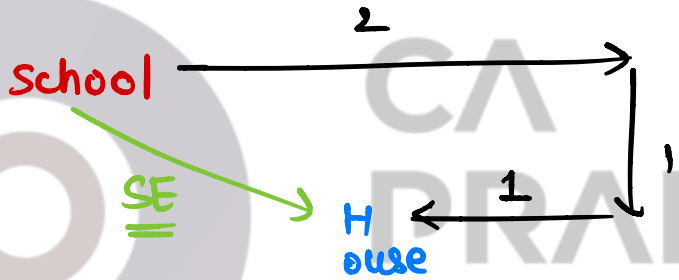
a)



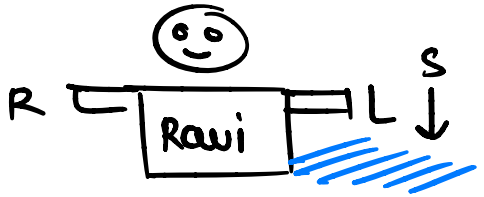
b)

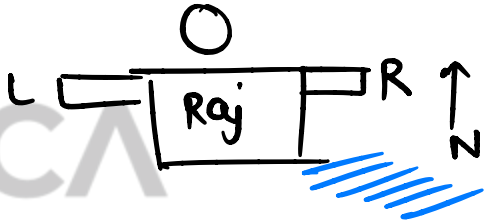


c)



		MTP
(11)	One evening before sunset, two friends Ravi and Raj were talking to each other face to face. If Ravi's shadow was exactly to his left side, which direction was Raj facing?	
	a. North	b. West
	c. East	d. South



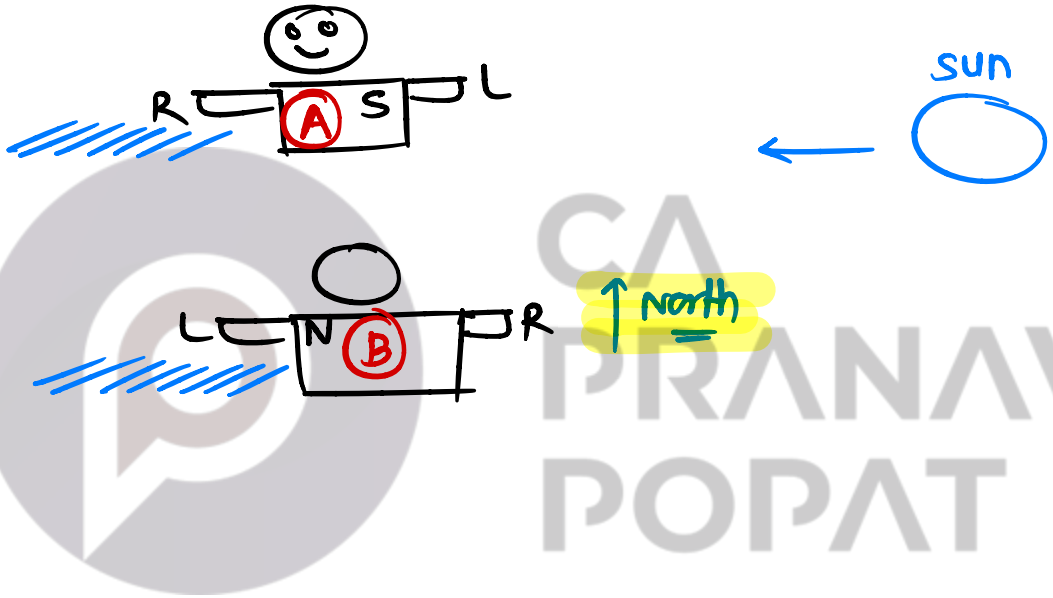


PYQ Sep 2024

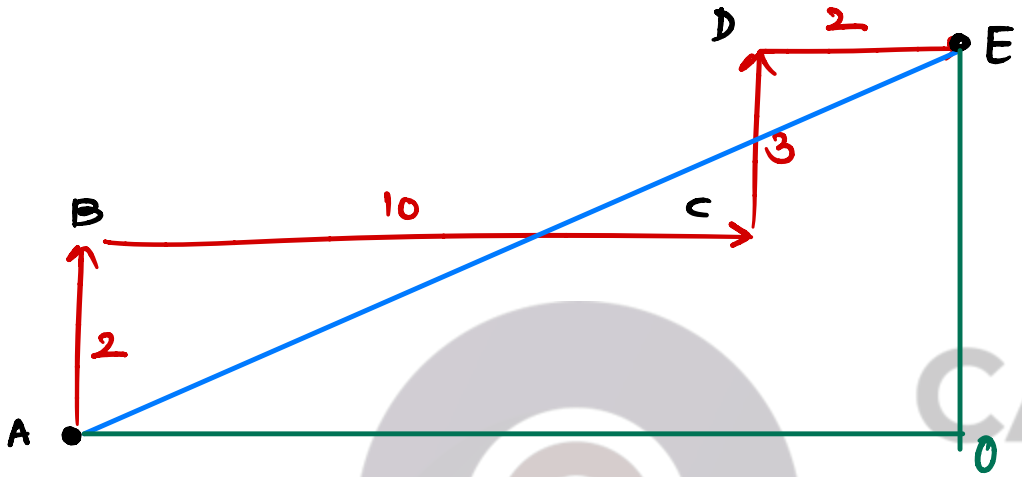
(74) One morning after sunrise, A and B were talking to each other face to face very closely at a crossing point. If B's shadow was exactly to the right of A, in which direction B was facing?

a. West b. East

c. North ✓ d. South



		MTP
(12)	Kiran walks 2 km towards North then he turns East and walks 10 km. After this he turns North and walks 3 km. Again, he turns towards East and walks 2 km. How far is he from the starting point?	
	a. 10 km	✓ b. 13 km
	c. 15 km	d. 17 km



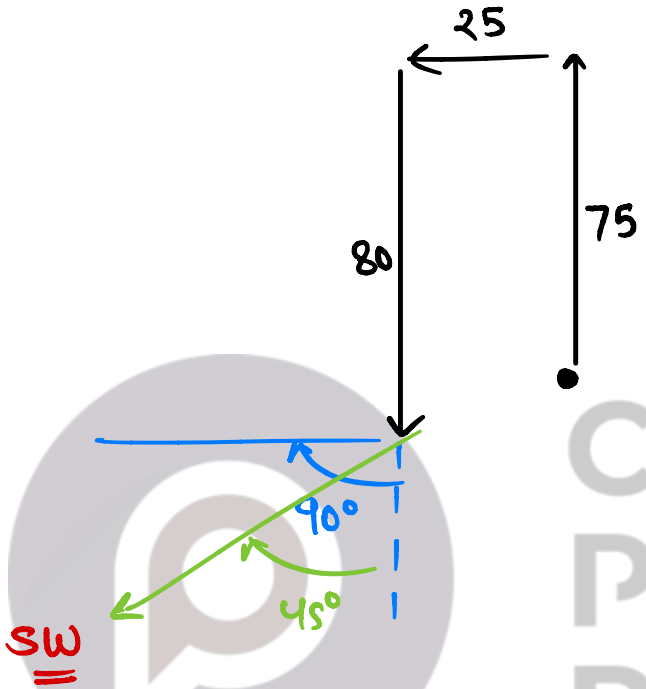
$AO = 10+2 = 12$ $\quad OE = 2+3 = 5$

$(AE)^2 = (AO)^2 + (OE)^2$

$= 12^2 + 5^2 = 169$

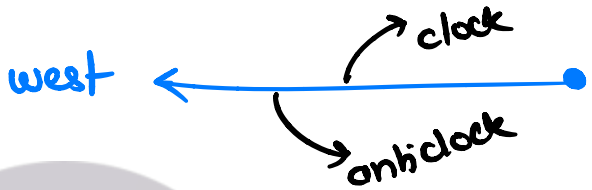
$AE = \sqrt{169} = 13$ km

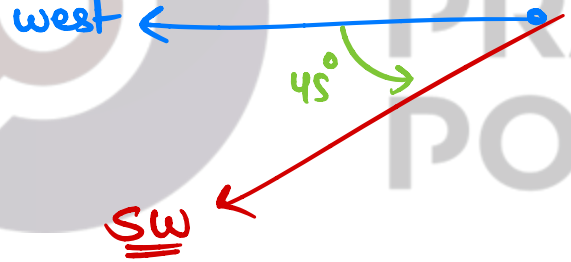
		MTP
(13)	Ramu moved 75 meters towards North. He then turned to left and after walking about 25 meters, turned left again and walks 80m. Finally, he turned to the right at an angle of 45 degree . In which direction was he moving finally?	
	a. South-East	b. North-East
	c. South-West	d. North-West



		PYQ Nov 20
(15)	A man is facing west, he turns 45 degree in the clockwise direction and then another 180 degree in the same direction and then 270 degree in the anti-clockwise direction. Which direction is he facing now?	
	a. South-West	b. North-West
	c. West	d. South

clockwise (45 + 180) = 225°
anticlockwise (270°)
net anticlockwise 45°





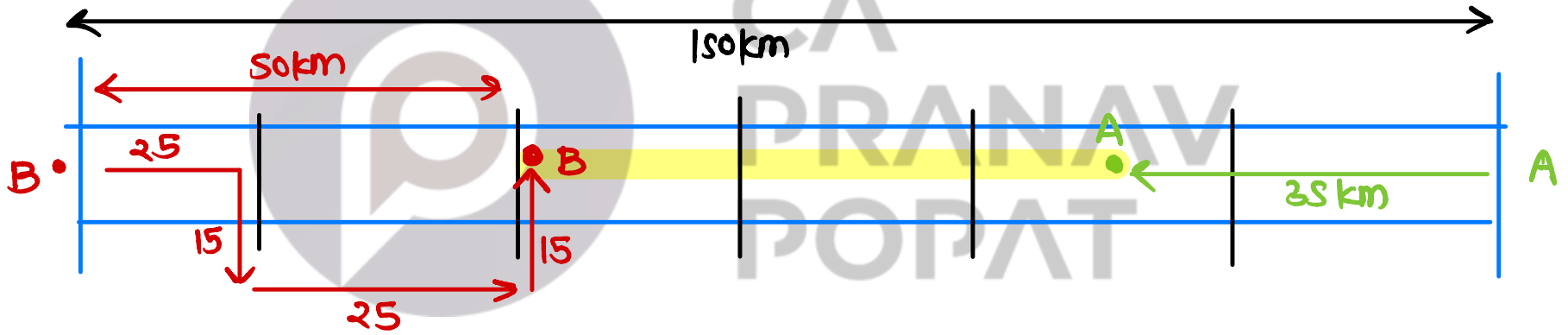
PYQ May 2025

(24) *Two cars start from the opposite places on a highway, 150 km apart. First car runs for 25 km and takes a right turn and then runs for 15 km. If then turns left and then runs for another 25 km and then takes the direction back to reach the main road. In the mean time, due to minor break down the other car has run only 35 km along the main road. What would be the distance between two cars at this point?*

a. 65 km b. 75 km

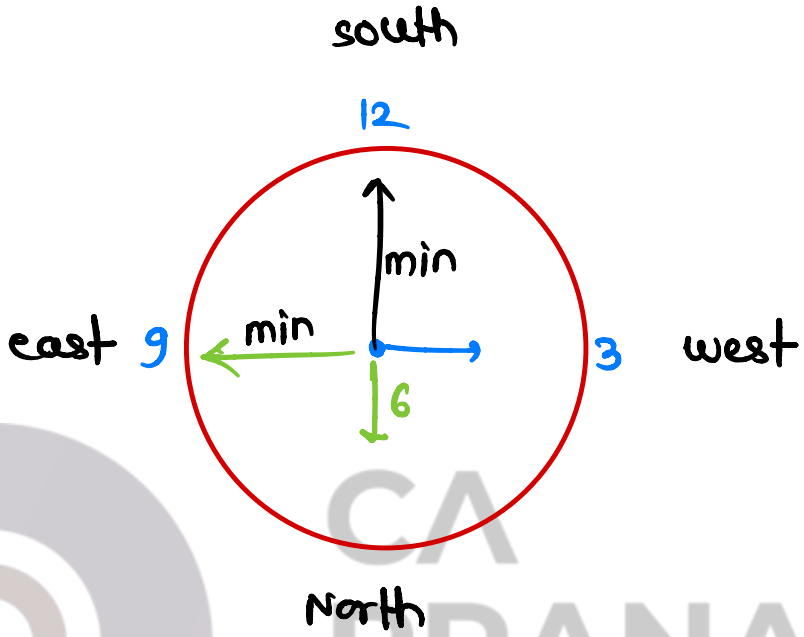
c. 80 km d. 85 km

150 km — 50km — 35km = 65 km



	PYQ Dec 21
(16)	The hour hand of a clock is in west direction when time is 3 o'clock. What is the direction of minutes hand when time is 6:45?

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



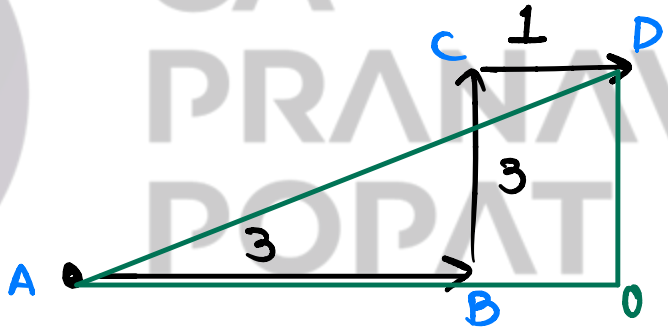
PYQ Nov 20

(18) A man can walk by having long, medium and short steps. He can cover 60 meters by 100 long steps, 100 meters by 200 medium steps and 80 meters by 200 short steps, he walks taking 5000 long steps, then he turns left and walk by taking 6000 medium steps. He then turns right and walk by taking 2500 short steps. How far (in meters) is he away from his starting point?

a. 5000 m ✓
b. 4000 m
c. 6000 m
d. 7000 m

	distance per step
long	60/100 = 0.6m
medium	100/200 = 0.5m
short	80/200 = 0.4m

5000 long step = 5000 × 0.6m = 3000m = 3km
6000 medium steps = 6000 × 0.5m = 3000m = 3km
2500 short step = 2500 × 0.4 = 1000m = 1km



AO = 3 + 1 = 4
DO = 3

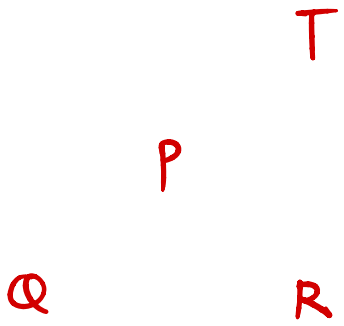
$DA = \sqrt{3^2+4^2}$

$= 5km$

PYQ Jul 21

(20) *There are four towns P, Q, R and T. Q is the South – West of P, R is to the East of Q and South – East of P and T is to the North of R in line with QP. In which direction of P is T located?*

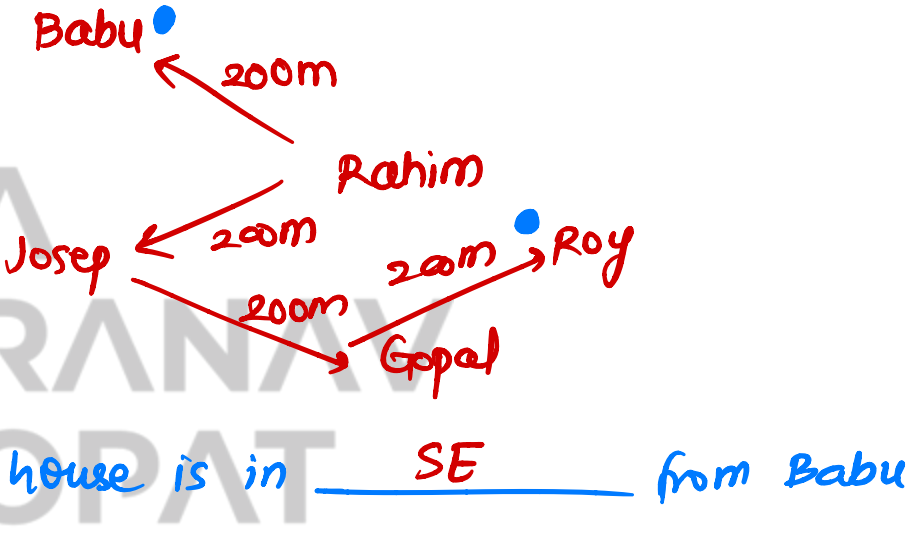
a.	*North*	*b.*	*North-East*
c.	*East*	*d.*	*South-East*



T is located in NE of P

(30) *Babu is Rahim's neighbour and his house is 200 meters away in the north-west direction. Joseph is Rahim's neighbour and his house is located 200 meter away in the south-west direction. Gopal is Joseph's neighbour and he stays 200 meters away in the south-east direction. Roy is Gopal's neighbour and his house is located 200 meters away in the north-east direction. Then where is the position of Roys' house in relation to Babu's ?*

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



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