Direction Sense Test

REASONING WORKBOOK

QUESTIONS

1. A man walks 200 m towards East. He turns to right and walks 100 m. He again turns to right and walks 200 m. He then turns to right and again walks 200 m. How far is he from the starting point of the trip? (a) 50 m (b) 100m (c) 200 m (d) 700 m A cyclist started his journey towards some direction. After covering 5 km, he turned to the left of him and covered 3 2. km. He again turned to the left and covered 2 km. He then turned to the right and covered 2 km. He again turned to the right and cycled 5 km. At last he turned to the right and cycled a distance of 5 km. How far was he at the end point from the starting point of the journey? (a) 8 km (b) 10km (c) 12 km (d) 14 km Someone is facing South-West and moves 5 m forward. She turns left and moves 12 m. She now is 3. (a) 11 m away from her initial point (b) 17m away from her initial point (c) 13m away from her initial point (d) 12 m away from her initial point Ganesh goes 5 km South, then he turns left two times and walks 8 km and 5 km respectively. How far and in which 4. direction is he from the starting point? (a) 8 km, North (b) 8 km. East (c) 5 km, West (d) 5 km. South Geeta is standing at the centre of a circular field. She goes up to the North and reach at a point on the boundary of 5. circle. She turns to the right and walks a distance of one-fourth of the boundary along the circular field. Finally she walks along the diameter from one end to another end. How far is she from the starting point if radius of the field is **R**? (b) $\frac{3}{4}\pi R$ (c) *πR* (a) 2R (d) R A tourist travelled 40 km towards East and turning to his left he travelled 60 km. "He then turned to his right and 6. travelled 40 km. What was the distance between his initial and final positions? (a) 100km (b) 120km (c) 140 km (d) Not possible to determine 7. A farmer everyday walks in his farm. He starts his walking from a point and walks 400 m towards South-East. He then turns to the right and moves 400 m again. He again turns to the right and walks 400 m. Finally he turns to the right and walks 400 m. What is the distance (in metres) between his initial and final position? (c) $400\sqrt{2}$ (b) 400 (a) 0 (d) 800 Two students Ram and Shyam 10 m apart are standing on a horizontal line. Both of them run the same distance 8. towards North-East. They again travelled equal distance towards South. How far is Ram now from Shyam? (a) $10\sqrt{2}$ m (d) $20\sqrt{2}$ m (b) $5\sqrt{2}$ m (c) 10 m A postman holds a bicycle and leaves the post office to deliver the posts. He travels 2 km to East and then 1 km to 9. his right. He then travels $\frac{1}{2}$ km to East and then $\frac{1}{2}$ km to his right. He again travels 1/2 km to west and then 1 km to his left. He finally travels 2 km to West. How far is he from the post office and in which direction? (c) $2\frac{1}{2}$ km - North (d) $2\frac{1}{2}$ km - South (b) 2 km - West (a) 2 km - East Kamya drove her car for 4 km in East. She then turned in South-West and drove for 5 km. She then turned in East 10. and drove for 4 km. She again turned in North-West and drove for 5 km. The shortest distance between Kamya's initial and final position was ___. (b) 6.5 km (c) 3 km (d) None of these (a) 9 km

11.	A villager visited in many villages to invite his relatives on his son's marriage from his village Rampur. He went to Kohinoor, the village of his son-in-law, 4 km away in South-East direction of Rampur. From there he went to Kishangarh, the village of his brother-in-law, 3 km away in South of Kohinoor. He then went to Ujalapur, the village
	of his friend, $2\sqrt{2}$ km away in west of Kishangarh. How far was Rampur from Ujalapur?
	(a) $(3+2\sqrt{2})$ km (b) $(3-2\sqrt{2})$ km (c) $(4+2\sqrt{2})$ km (d) $(4-2\sqrt{2})$ km
12.	Two cyclists are standing at a point. One goes 6 km towards West and other one goes the same distance towards North. How far is one from the other one?
	(a) 3 km (b) 12 km (c) $4\sqrt{2}$ km (d) $6\sqrt{2}$ km
13.	There are four police posts namely P, Q, R and S. P is 6 km to the North of Q. Q is 4 km to the West of R and S is 2 km to the West of P. In which direction is S of R?
	(a) South-East (b) North-West (c) North-East (d) South-West
14.	If North is replaced by South, then East is replaced by which of the following directions?
	(a) South (b) West (c) North-West (d) Data inadequate
15.	If North-West is replaced with South, then North is replaced with which of the following directions?
	(a) North-West (b) North-East (c) South-West (d) Data inadequate
16.	An athlete starts running towards North. After running 5 km, she turns to her left and runs another 10 km. She then turns to left and runs another 20 km. Finally she turns to left and runs 10 km. How far is she now from the starting
	point and in which direction?
17	(a) 15 km, North (b) 15 km. South (c) 20 km, North (d) 20 km, South
17.	Two students X and Y come out from the school and starts walking 1.5 km each in opposite directions. Each turns
	to his right and go 2 km to reach their homes. What is the distance between the homes of X and Y? (a) 8 km (b) 7 km (c) 6 km (d) 5 km
18.	Poonam first drives her car towards East, then she turns to her left and drives some distance. After that she turns to
10.	her right and drives a certain distance. At last, she turns to her right and drives some distance. After that she turns to
	Poonam now driving?
	(a) East (b) West (c) North (d) South
19.	X and Y are at the same distance from Z but X is towards North-East of Z and Y is towards South-East of Z. In which
	direction of Y does X lie?
	(a) North (b) North-West (c) South (d) South-West
20.	A boy is facing towards West. He turns 135° anticlockwise and then 90° clockwise. Which direction is he facing now?
	(a) North-West (b) North-East (c) South-West (d) South-East
21.	There is a crossing of four perpendicular roads in a city. The roads end to a museum, a theatre, a school and a
	temple respectively. The temple ends in the North. One observes that if he comes on the crossing from the temple,
	the road to the right ends is the museum, the road to the left ends is the theatre and straight forward is the school. In
	which direction is the theatre?
99	(a) East (b) West (c) South (d) South-West
22.	Gunjan is facing West. She turns 200° in the clockwise direction and then 85° in the anticlockwise direction. At last she turns 20° in the clockwise direction. Which direction is she facing now?
	(a) North-East (b) North-West (c) South (d) East
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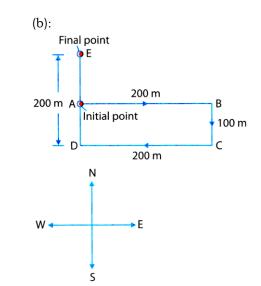
Direction (23 - 25): Study the information given below carefully and answer the questions that follow. Five students facing East, are sitting in a class room as described below:

(d) Munesh

- (i) Naresh is 3 metres to the East of Mukesh
- (ii) Suresh is 5 metres to the West of Naresh
- (iii) Harsh is 4 metres to the North of Munesh
- (iv) Mukesh is 1 metre to the South of Harsh
- **23.** Who is the South-West of Naresh?
 - (a) Mukesh (b) Harsh (c) Suresh

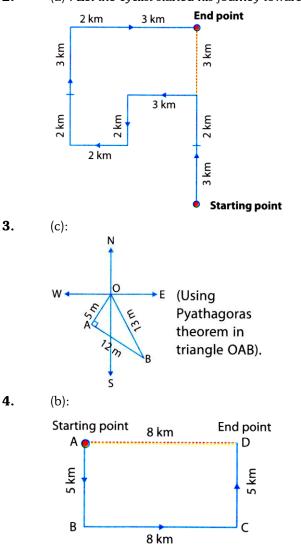
24.	=		Mukesh followed by Suresh a nly horizontally and vertically?	and then by Naresh, then atleast how n	nany
	(а) бт	(b) 8 m	(c) 7 m	(d) 9 m	
25.	If Suresh and Harsh in	nterchanged their pl	aces, then who is to the West	of Mukesh?	
	(a) Naresh	(b) Suresh	(c) Harsh	(d) Munesh	
26.	Komal faces towards i	north.Turning to her	right, she walks 25 metres. Sl	he then turns to her left and walks 30 me	etres.
	Next, she moves 25 n	netres to her right. S	She then turns to her right aga	in and walks 55 metres. Finally, she tur	ns to
	the right and moves 4	0 metres. In which o	direction is she now from her	starting point?	
	(a) South-West	(b) South	(c) North-West	(d) South-East	
27.	Inspector Jatin travelle	ed from his police st	ation for 400 metres. He then	turned left and travelled 500 metres str	aight
	after which he turned	left again and trave	elled for 400 metres straight. I	He then turned right and walked for an	other
	600 metres straight. H	low far is he from th	ne Police station?		
	(a) 1.0km	(b) 1.1 km	(c) 1.4km	(d) 1.8km	
28 .	A child is looking for l	his father. He went 9	90 metres in the east before tu	urning to his right. He went 20 metres b	efore
	turning to his right aga	ain to look for his fa	ther at his uncle's place 30 me	tres from this point. His father was not t	nere.
	From there, he went 1	.00 metres to his nor	rth before meeting his father ir	n a street. How far did the son meet his f	ather
	from starting point?				
	(a) 80 m	(b) 100 m	(c) 140 m	(d) 260 m	
29 .	Y is to the East of X, v	which is to the Nortl	h of Z. If P is to the South of Z	Z, then P is in which direction with respe	ect to
	Y?			(SOF NCO 202	l 6)
	(a) North	(b) South	(c) North-East	(d) South-West	
30.	Trishu starts from poi	nt P and walks towa	ards West and stops at point (Q. She now takes a right turn and then	a left
	turn and stops at poin	t R. She finally take	s a left turn and stops at point	S. If she walks 5 km before taking each	turn,
	towards which direction	on will Trishu have t	to walk from point 5 to reach ;	point Q. (SOF NSO 201	6)
	(a) North	(b) South	(c) West	(d) East	
31 .	Trishika and Sidak sta	arted walking from t	wo different points 'A and 'B'	respectively. Trishika walks 5 km North	and
	turns to the East and w	walks 6 km. She aga	ain turns to North and walks 4	km and finally she turns to East and wa	11 0
		0		will all maily she turns to Last and we	IKS 3
	km to reach point 'C'.	-		est and walks 6 km and finally turns to N	
	=	Similarly, Sidak wal		est and walks 6 km and finally turns to N	
	=	Similarly, Sidak wal	ks 5 km North and turns to We	est and walks 6 km and finally turns to N	orth,
	=	Similarly, Sidak wal	ks 5 km North and turns to We	est and walks 6 km and finally turns to N B" from point 'A'?	orth,
32.	walks 4 km and meets	Similarly, Sidak wal s Trishika at point 'C (b) West	ks 5 km North and turns to We 2. In which direction is point "I (c) South	est and walks 6 km and finally turns to N B" from point 'A'? (SOF NSO 20 1	orth, 1 6)
32.	walks 4 km and meets (a) East Puneet left his home for 8 km. He then turned	Similarly, Sidak wal s Trishika at point 'C (b) West or office in car. He d to left and covered	ks 5 km North and turns to We C. In which direction is point "I (c) South rove 15 km straight towards N 1 km. He again turned left ar	est and walks 6 km and finally turns to N B" from point 'A'? (SOF NSO 201 (d) North forth and then turned Eastwards and cov nd drove for 20 km and reached office.	orth, 1 6) vered How
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33. 34.	walks 4 km and meets (a) East Puneet left his home for 8 km. He then turned far and in which direct (a) 21 km, West (c) 20 km, North-West (c) 20 km, North-West (c) 20 km, North-West (c) 20 km, North-West Going 90 m to the So turning to his right and (a) $30\sqrt{5}$ m, North-E (c) 38 m. South Sneha walks 2 km No 90° and goes 8 km up	Similarly, Sidak wal s Trishika at point 'C (b) West or office in car. He d to left and covered tion is his office from t Gumit who is in the N (b) South-West oth, Gaurav turns le d goes 25 m. How f East orth from A to B. Sh pto D. Again she tak	ks 5 km North and turns to We (c) South (c) South frove 15 km straight towards N 1 km. He again turned left ar in the home? (b) 15 km, North-East (d) 26 km, North-West North of Jatin. If Arnav is in So (c) South eft and goes another 35 m. Th far is he now from his starting (b) $30\sqrt{5}$ m, South-East (d) $40\sqrt{3}$ m, North-West he turns right at 90° and goes ses right turn at 90° and goes	est and walks 6 km and finally turns to N B" from point 'A'? (SOF NSO 201 (d) North North and then turned Eastwards and cound drove for 20 km and reached office. (SOF NCO 201 (d) South Hen Arnav is in which dire (SOF NSO 201 (d) South-East ten turning to the North, goes 60 m and point and in which direction? (SOF IMO 201 3 km upto C. She, then again turns rig 3 km upto K. From K she takes right tu	orth, eered How L7) ction L7) then 7) ht at
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33. 34.	walks 4 km and meets (a) East Puneet left his home for 8 km. He then turned far and in which direct (a) 21 km, West (c) 20 km, North-West (c) 20 km, North-West (c) 20 km, North-West (c) 20 km, North-West Going 90 m to the So turning to his right and (a) $30\sqrt{5}$ m, North-E (c) 38 m. South Sneha walks 2 km No 90° and goes 8 km up	Similarly, Sidak wal s Trishika at point 'C (b) West or office in car. He d to left and covered tion is his office from t Gumit who is in the N (b) South-West oth, Gaurav turns le d goes 25 m. How f East orth from A to B. Sh pto D. Again she tak	ks 5 km North and turns to We (c) South (c) South frove 15 km straight towards N 1 km. He again turned left ar in the home? (b) 15 km, North-East (d) 26 km, North-West North of Jatin. If Arnav is in So (c) South eft and goes another 35 m. Th far is he now from his starting (b) $30\sqrt{5}$ m, South-East (d) $40\sqrt{3}$ m, North-West he turns right at 90° and goes ses right turn at 90° and goes	est and walks 6 km and finally turns to N B" from point 'A'? (SOF NSO 201 (d) North North and then turned Eastwards and cound drove for 20 km and reached office. (SOF NCO 201 (d) South Hen Arnav is in which dire (SOF NSO 201 (d) South-East ten turning to the North, goes 60 m and point and in which direction? (SOF IMO 201 3 km upto C. She, then again turns rig 3 km upto K. From K she takes right tu	orth, rered How 17) ction 7) then 7) ht at rm at

ANSWER - KEY										
1.	В	2.	А	3.	С	4.	В	5.	D	
6.	А	7.	А	8.	С	9.	D	10.	D	
11.	А	12.	D	13.	В	14.	D	15.	D	
16.	В	17.	D	18.	D	19.	А	20.	С	
21.	А	22.	А	23.	D	24.	В	25.	С	
26.	D	27.	В	28.	В	29.	D	30.	D	
31.	А	32.	С	33.	В	34.	В	35.	А	

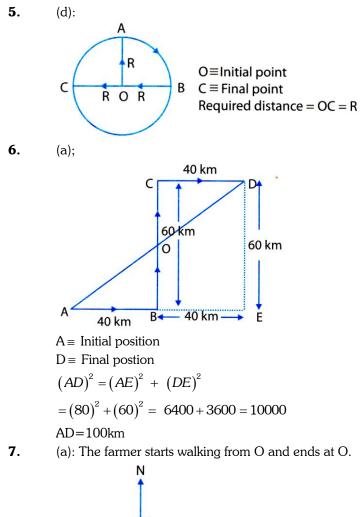


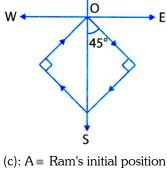
1.

2. (a) : Let the cyclist started his journey towards North.

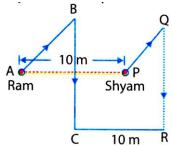


EXPLANATIONS



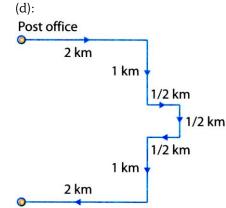


- 8.
 - (c): $A \equiv \text{Ram's initial position}$ $P \equiv \text{Shyam's initial position}$ $C \equiv \text{Ram's final position}$
 - $R \equiv$ Shyam's final position



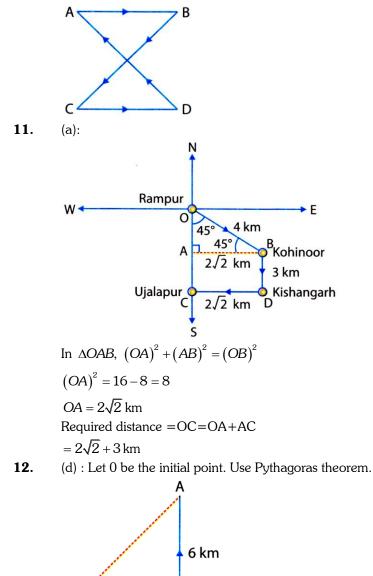
ABQP is a parallelogram, AB is equal & parallel to PQ & AP is equal & parallel to BQ. CR=BQ=10m

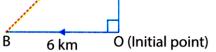


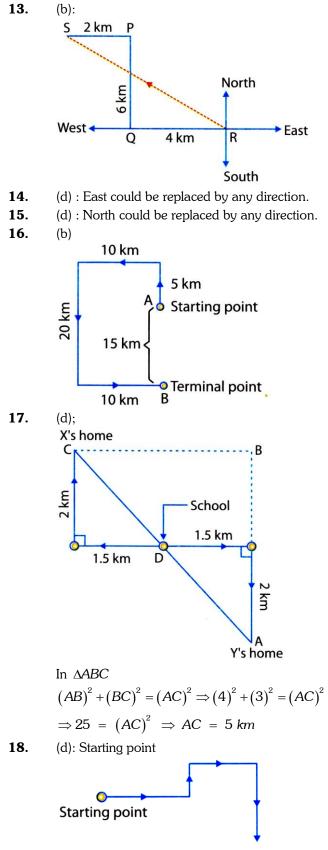


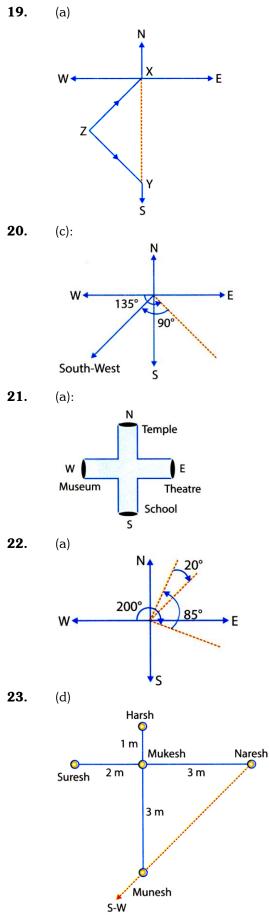
Final position

10. (d) : Kamya started her journey from the point A and finished also at the same point A.









- **24.** (b): Required distance =1+2+2+3=8m.
- **25.** (c) Not Available
- **26.** (d) Not Available
- **27.** (b) Not Available
- **28.** (b) Not Available
- **29.** (d) Not Available
- **30.** (d) Not Available
- **31.** (a) Not Available
- **32.** (c) Not Available
- **33.** (b) Not Available
- **34.** (b) Not Available
- **35.** (a) Not Available