

QUESTIONS

1.	A cat runs 20m tov	vards East, turns right and	rurrs-10 m. She then turn	s right and runs 9m. She again turns left and			
	runs 5 m and then	turns left and runs 12 m. F	inally she turns left and rur	ns 6 m. Now which direction is the cat facing?			
	(a) East	(b) North	(c) West	(d) North-East			
2 .	You go towards No	orth, turn right, then right a	again and then go to the le	eft. In which direction are you facing now?			
	(a) North	(b) South	(c) East	(d) West			
3 .	From his house, K	abir went 15 km to the No	orth. Then he turned West	and covered 10 km. Then, he turned South			
	and covered 5 km.	Finally turning to East, he	covered 10 km. In which	direction is he from his house?			
2. 3. 4. 5. 6. 7. 8. 11.	(a) East	(b) West	(c) North	(d) South			
4.	Village W is 20 km	to the North of village X. V	/illage Y is 18 km to the Ea	ast of village X. Village Z is 12 km to the West			
	of W. If Manu star	s from village Y and goes	to village Z via village X a	and W, then in which direction is he from his			
	starting point?						
	(a) North-West	(b) South	(c) North-East	(d) East			
5 .	If X is to the South	of Y and Z is to the East of	of Y, then in what direction	n is X with respect to Z?			
	(a) North-East	(b) North-West	(c) South-West	(d) South-East			
6.	A watch reads 4:30). If the minute hand point	s East, then in what direct	ion will the hour hand point?			
	(a) North-East	(b) South-West	(c) North	(d) South			
7 .	If South-East become	mes North, North becomes	s South-West and so on, tl	hen what will North-West become?			
	(a) South-East	(b) North-West	(c) North	(d) South			
8.	The time on the wa	atch is quarter to three. If t	he minute hand points to	North-East, in which direction does the hour			
	hand point?						
	(a) South-East	(b) South-West	(c) North-East	(d) North-West			
9.	Ankit, Tarun, Roha	an and Sohan are friends.	They play cards. Partner t	faces in opposite directions. Ankit and Tarun			
	become partners.	Sohan faces North. IfAnkit	faces towards West, then	who faces towards South?			
	(a) Tarun	(b) Rohan	(c) Sohan	(d) Data inadequate			
10 .	Abhishek puts his t	imepiece on the table in s	uch a way that at 6 p.m., h	nour hand points to North. In which direction			
	the minute hand w	ill point at 9.15 p.m.?					
	(a) South-East	(b) South	(c) North	(d) West			
11.	Ajay left home and	l cycled 10 km towards So	uth, then turned right and	cycled 5 km and then again turned right and			
	cycled 10 km. Afte	er this he turned left and c	ycled 10 km. How many	kilometres will he have to cycle to reach his			
	home straight?						
	(a) 10 km	(b) 15 km	(c) 20 km	(d) 25 km			
12 .	A man is facing to	wards West and turns thro	ough 45° clockwise, again	180° clockwise and then turns through 270°			
	anticlockwise. In w	hich direction is he facing	now?				
	(a) West	(b) North-West	(c) South	(d) South-West			
13 .	I am facing East. I	turn 100° in the clockwise	direction and then 145° in	n the anticlockwise direction. Which direction			
	am I facing now?						
	(a) East	(b) North-East	(c) North	(d) South			
14.		orth-West. He turns 90° in	the clockwise direction, th	nen 180° in anti-clockwise direction and then			
	_	anti-clockwise direction. W					
	(a) South	(b) South-West	(c) West	(d) South-East			
15 .	, ,	` '	, ,	ion, then 30 metres in South-West direction.			
-	Next she walks 30 metres in South-East direction. Finally, she turns towards her house. In which direction is she						
	moving now?		•				
	(a) North-East	(b) North-West	(c) South-West	(d) South-East			
16.			, ,	ch direction with respect to A?			
	(a) East	(b) West	(c) North-East	(d) South			

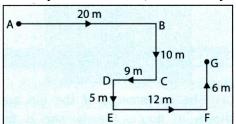
17.		= = =	eeds East to Camp B which he returns and proceeds 12	=	= =		
	far is he away from (•	•	-		
	(a) 3 km	(b) 6 km	(c) 5 km	(d) 12 km			
18.	In which direction of	A is D located?	3 and South-East of A and		f C in line with B and A		
	(a) North-West	(b) South-West	(c) South-East	(d) North-East			
19.	_		owards North and then after right each time. How far i (c) 10 metres		=		
20.		= =	North such that S is in the n which direction of R is G (c) North-East	= -	_		
21.	Kunal faces towards Next, he move 25 m	North. Turning to his right to his right. He then	ht, he walks 25 metres. H n turns to his right again a n is he now from his startir	e then turns to his leand walks 55 metres	eft and walks 30 metres		
	(a) South-West	(b) South	(c) North-West	(d) South-East			
22 .		tres. Then he took a righ	He walked a distance of 15 nt turn and walked a dista				
	(a) North-East	(b) South	(c) North	(d) South-Wes	t		
23.	Mohit is facing North		the clockwise direction an	nd then 135° in the	anti-clockwise direction		
					(SOF NCO 2016)		
	(a) East	(b) West	(c) North	(d) South			
24.	=	the North of Sumit. Priya neet with respect to Priya	nka is standing to East of nka?	Ahika. Puneet is to t			
	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(1.) (2)	/	/ 1\ NI (1 III	(SOF NSO 2016)		
25 .			(c) South runs 20 m. He turns right a ne turns left and runs 7 m.	_	ain turns left and runs 6 he facing now?		
	(a) North	(b) North-East	(c) East	(d) West	(SOF IMO 2016)		
26.	A boy first goes in South direction, then he turns towards left and travels for some distance. After that he turns right and moves certain distance. At last he turns left and travels again for some distance. Now, in which direction is he moving?						
					(SOF NCO 2017)		
	(a) South	(b) West	(c) East	(d) North			
27 .			e turned right and walked nally she turned left and v		-		
	31				(SOF NCO 2017)		
	(a) West	(b) North	(c) East	(d) South			
28 .			t and walks 20 m. She the				
	turned to her right a	nd walks 12 m. How far a	and in which direction is sl	ne now from the star	ting point? (SOF NSO 2017)		
	(a) 32 m. South	(b) 47 m. East	(c) 42 m, North	(d) 42 m, Sout	h		

29.	9 ,	km, Madhu turned right and covered a distance of 4 km, then turned towards left and covered n. At the end, she was moving towards North. In which direction, did she start the journey? (SOF IMO 2017) (b) West (c) North (d) South km to the East and then turns to the South and walks 5 km. Again he turns to the East and walks					
					(SOF IMO 2017)		
	(a) East	(b) West	(c) North	(d) South			
30 .	A man walks 6 km to the East and then turns to the South and walks 5 km . Again he turns to the East and walks 6 km						
km. Next, he turns northwards and walks 10 km. How far is he now from his starting point?							
					(SOF IMO 2017)		
	(a) 5 km	(b) 12 km	(c) 13 km	(d) 17 km			

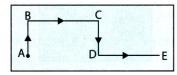
ANSWER - KEY									
1.	В	2.	С	3.	С	4.	Α	5.	С
6.	Α	7.	D	8.	В	9.	В	10.	D
11.	В	12.	D	13.	В	14.	D	15.	А
16.	Α	17.	Α	18.	D	19.	Α	20.	D
21.	D	22.	С	23.	В	24.	В	25.	Α
26.	С	27.	С	28.	Α	29.	С	30.	С

EXPLANATIONS

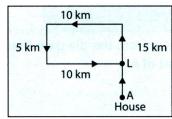
1. (b): The movements of the cat and the distances the cat covers from point to point are shown in the diagram. The cat finally comes at G. So, the cat finally is facing North.



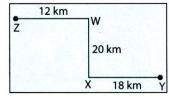
2. (c): The movements indicated are as shown in figure. Thus, the final movement is in the direction indicated by DE, which is East.



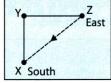
3. (c): The movements of Kabir are shown in the diagram. He was finally at the position L which was to the North of the starting point A (House).



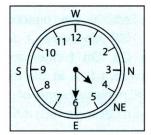
4. (a); From the figure, it is clear that Y and Z denote the starting and finishing points, respectively. Z is to the North-West of point Y.



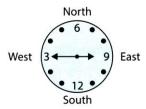
5. (c): A diagram is made according to the directions given in the question. Clearly, X is in South-West of Z.



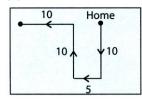
6. (a) : From the diagram at 4:30, the hour hand is 45° behind the minute hand, so moving 45° anticlockwise from East, hour hand will point NE.



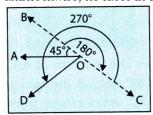
- 7. (d): South-East becoming North means all the directions are turning clockwise through an angle of 135°. Thus, North-West when moved clockwise through 135° will become South.
- **8.** (b): The opposite direction to North-East is South-West.
- **9.** (b) Not Available
- **10.** (d):



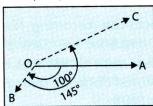
11. (b)



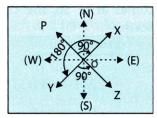
12. (d): As shown in the figure, the man initially faces in the direction OA. On moving 45° clockwise, the man faces in the direction OB. On further moving 180° clockwise, he faces in the direction OC. Finally on moving 270° anticlockwise, he faces in the direction OD, which is South-West



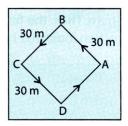
13. (b): As shown in figure, I initially face towards East, in the direction OA. On moving 100° clockwise, I face in the direction OB. On further moving 145° anticlockwise, I face in the direction OC. Clearly, OC makes an angle of $(145^{\circ} - 100^{\circ})$ i.e., 45° with OA and which is North-East.



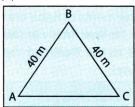
14. (d); The man initially faces in the direction OR On moving 90° clockwise, he faces in the direction OX. After this on moving 180° anticlockwise, he faces in the direction OY. Finally, on moving 90° anticlockwise, he faces in the direction OZ, which is South-East.



15. (a) The movements of the girl are as shown in figure. Clearly, she is finally moving in the direction DA i.e., North-



16. (a):



It is clear from the diagram that C lies to the East of A.

17. (a) Not Available

18. (d) Not Available

19. (a) Not Available

20. (d) Not Available

21. (d) Not Available

22. (c) Not Available

23. (b) Not Available

24. (b) Not Available

25. (a) Not Available

26. (c) Not Available

27. (c) Not Available

28. (a) Not Available

29. (c) Not Available

30. (c) Not Available