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Logical Reasoning Tricks and Techniques for

Exam: IAS, PCS, UPSC, Bank PO, NDA, RRB, SSC, Indian Air Force, Etc.

VERBAL REASONING-DIRECTION SENSE TEST(ENGLISH)

Q1: John starts walking from his house towards the north and covers 15 km. He turns right and walks 10 km, then turns right again and walks 15 km. How far is he from his house?

Normal method: John starts by walking 15 km north. He then turns right and walks 10 km east. Finally, he turns right again and walks 15 km south. He ends up 10 km east from his starting point, since he has walked the same distance north and south, effectively canceling out his north-south movement.

Short Method: Since he walked north and south the same distance, he is directly east of his starting point by 10 km.

Q2: Sarah walks 30 meters south, then turns left and walks 40 meters. She turns left again and walks 30 meters. Finally, she turns right and walks 20 meters. How far is she from her starting point?

Normal method: Sarah walks 30 meters south. Turning left, she walks 40 meters east. Turning left again, she walks 30 meters north, aligning her with the east position. Finally, she turns right and walks 20 meters east. Therefore, she is $40 + 20 = 60$ meters east of her starting point.

Short Method: Distance south and north cancel each other. Net displacement is the sum of eastward distances: $40 + 20 = 60$ meters east.

Q3: A man walks 10 meters east, then turns left and walks 10 meters, then turns left and walks 10 meters. How far and in which direction is he from the starting point?

Normal method: The man walks 10 meters east, then 10 meters north, and finally 10 meters west. His net displacement is 10 meters north of his starting point.

Short Method: Final position: 10 meters north since east and west distances cancel out.

Q4: Lisa walks 5 km west, turns right, walks 3 km, turns right again, and walks 5 km. How far is she from the starting point?

Normal method: Lisa walks 5 km west, then 3 km north, then 5 km east. She ends up 3 km north of her starting point.

Short Method: West and east distances cancel out. She is 3 km north.

Q5: A person walks 12 km north, then turns right and walks 5 km, turns right again and walks 12 km. How far is he from the starting point?

Normal method: The person walks 12 km north, then 5 km east, then 12 km south, which cancels out his northward movement. He is 5 km east of his starting point.

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Short Method: North and south distances cancel out. He is 5 km east.

Q6: Peter travels 8 km east, then 6 km north, then 8 km west, and finally 6 km south. How far is he from the starting point?

Normal method: Peter travels 8 km east and 6 km north, then 8 km west and 6 km south. All movements cancel out, so he returns to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q7: A person moves 7 km north, then 6 km west, then 7 km south, and finally 6 km east. How far is he from the starting point?

Normal method: The person moves 7 km north, 6 km west, 7 km south, and 6 km east. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q8: John travels 10 km north, turns left and travels 15 km, then turns right and travels 10 km. How far and in which direction is he from his starting point?

Normal method: John travels 10 km north, 15 km west, and then 10 km north again. His final position is 20 km north and 15 km west of his starting point.

Short Method: Sum northward distances: $10 + 10 = 20$ km north, 15 km west.

Q9: A person walks 4 km north, then 3 km west, then 4 km south, then 3 km east. How far is he from the starting point?

Normal method: The person walks 4 km north, 3 km west, 4 km south, and 3 km east. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q10: A person moves 3 km south, turns right and walks 2 km, then turns right and walks 3 km. How far and in which direction is he from the starting point?

Normal method: The person walks 3 km south, 2 km west, and 3 km north. He is 2 km west of his starting point.

Short Method: South and north distances cancel out. He is 2 km west.

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Q11: A man walks 6 km east, then 5 km north, then 4 km west, then 5 km south, then 2 km east. How far is he from his starting point?

Normal method: The man walks 6 km east, 5 km north, 4 km west, 5 km south, and 2 km east. Net displacement east: $6 - 4 + 2 = 4$ km. Net displacement north: $5 - 5 = 0$ km. He is 4 km east of his starting point.

Short Method: Sum eastward distances, net: $6 - 4 + 2 = 4$ km east.

Q12: Julie walks 9 km north, then 4 km east, then 9 km south, then 4 km west. How far is she from her starting point?

Normal method: Julie walks 9 km north, 4 km east, 9 km south, and 4 km west. All movements cancel out, returning her to the starting point.

Short Method: Distances in opposite directions cancel each other out. She is 0 km from the starting point.

Q13: A person walks 10 km north, then turns right and walks 5 km, then turns right again and walks 10 km. How far and in which direction is he from his starting point?

Normal method: The person walks 10 km north, then 5 km east, and finally 10 km south. He ends up 5 km east of his starting point.

Short Method: North and south distances cancel out. He is 5 km east.

Q14: A man walks 5 km east, then 12 km north, then 5 km west, then 12 km south. How far is he from the starting point?

Normal method: The man walks 5 km east, 12 km north, 5 km west, and 12 km south. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q15: A person moves 8 km north, then 5 km east, then 8 km south, and finally 5 km west. How far is he from the starting point?

Normal method: The person moves 8 km north, 5 km east, 8 km south, and 5 km west. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

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Q16: Sarah walks 10 km west, then 5 km north, then 10 km east, then 5 km south. How far is she from her starting point?

Normal method: Sarah walks 10 km west, 5 km north, 10 km east, and 5 km south. All movements cancel out, returning her to the starting point.

Short Method: Distances in opposite directions cancel each other out. She is 0 km from the starting point.

Q17: A person walks 4 km north, then 5 km west, then 4 km south, and finally 5 km east. How far is he from the starting point?

Normal method: The person walks 4 km north, 5 km west, 4 km south, and 5 km east. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q18: A man walks 12 km north, then 15 km east, then 12 km south. How far and in which direction is he from his starting point?

Normal method: The man walks 12 km north, 15 km east, and then 12 km south. He ends up 15 km east of his starting point as the north and south distances cancel out.

Short Method: North and south distances cancel out. He is 15 km east.

Q19: A person moves 6 km south, turns right and walks 8 km, turns right again and walks 6 km. How far and in which direction is he from the starting point?

Normal method: The person walks 6 km south, 8 km west, and then 6 km north. He ends up 8 km west of his starting point as the south and north distances cancel out.

Short Method: South and north distances cancel out. He is 8 km west.

Q20: A person walks 10 km east, then 8 km north, then 10 km west, and finally 8 km south. How far is he from the starting point?

Normal method: The person walks 10 km east, 8 km north, 10 km west, and 8 km south. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

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Q21: A person walks 3 km south, turns left and walks 4 km, turns left again and walks 3 km, and finally turns left and walks 4 km. How far is he from the starting point?

Normal method: The person walks 3 km south, 4 km east, 3 km north, and 4 km west. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q22: A person walks 8 km north, turns left and walks 6 km, turns left again and walks 8 km, and finally turns left and walks 6 km. How far is he from the starting point?

Normal method: The person walks 8 km north, 6 km west, 8 km south, and 6 km east. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q23: A person walks 7 km north, then 4 km west, then 7 km south, and finally 4 km east. How far is he from the starting point?

Normal method: The person walks 7 km north, 4 km west, 7 km south, and 4 km east. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q24: A man walks 9 km south, turns right and walks 5 km, then turns right again and walks 9 km. How far and in which direction is he from his starting point?

Normal method: The man walks 9 km south, 5 km west, and then 9 km north. He ends up 5 km west of his starting point as the south and north distances cancel out.

Short Method: South and north distances cancel out. He is 5 km west.

Q25: A person moves 5 km east, turns left and walks 7 km, turns left again and walks 5 km, and finally turns left and walks 7 km. How far is he from the starting point?

Normal method: The person walks 5 km east, 7 km north, 5 km west, and 7 km south. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q26: A person walks 6 km north, then 8 km west, then 6 km south, and finally 8 km east. How far is he from the starting point?

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Normal method: The person walks 6 km north, 8 km west, 6 km south, and 8 km east. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q27: A man walks 10 km east, turns left and walks 12 km, turns left again and walks 10 km. How far and in which direction is he from his starting point?

Normal method: The man walks 10 km east, 12 km north, and then 10 km west. He ends up 12 km north of his starting point as the east and west distances cancel out.

Short Method: East and west distances cancel out. He is 12 km north.

Q28: A person walks 8 km north, turns left and walks 3 km, turns left again and walks 8 km, and finally turns left and walks 3 km. How far is he from the starting point?

Normal method: The person walks 8 km north, 3 km west, 8 km south, and 3 km east. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q29: A person moves 5 km south, turns left and walks 6 km, turns left again and walks 5 km, and finally turns left and walks 6 km. How far is he from the starting point?

Normal method: The person walks 5 km south, 6 km east, 5 km north, and 6 km west. All movements cancel out, returning him to the starting point.

Short Method:

Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q30: A man walks 12 km north, turns right and walks 5 km, turns right again and walks 12 km. How far and in which direction is he from his starting point?

Normal method: The man walks 12 km north, 5 km east, and then 12 km south. He ends up 5 km east of his starting point as the north and south distances cancel out.

Short Method: North and south distances cancel out. He is 5 km east.

Q31: A person walks 3 km south, turns right and walks 4 km, turns right again and walks 3 km, and finally turns right and walks 4 km. How far is he from the starting point?

Normal method: The person walks 3 km south, 4 km west, 3 km north, and 4 km east. All movements cancel out, returning him to the starting point.

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Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q32: A person walks 10 km north, turns left and walks 7 km, turns left again and walks 10 km, and finally turns left and walks 7 km. How far is he from the starting point?

Normal method: The person walks 10 km north, 7 km west, 10 km south, and 7 km east. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q33: A man walks 8 km north, turns right and walks 4 km, turns right again and walks 8 km. How far and in which direction is he from his starting point?

Normal method: The man walks 8 km north, 4 km east, and then 8 km south. He ends up 4 km east of his starting point as the north and south distances cancel out.

Short Method: North and south distances cancel out. He is 4 km east.

Q34: A person walks 6 km south, then turns left and walks 8 km, turns left again and walks 6 km, and finally turns left and walks 8 km. How far is he from the starting point?

Normal method: The person walks 6 km south, 8 km east, 6 km north, and 8 km west. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q35: A man walks 7 km north, turns right and walks 5 km, then turns right again and walks 7 km. How far and in which direction is he from his starting point?

Normal method: The man walks 7 km north, 5 km east, and then 7 km south. He ends up 5 km east of his starting point as the north and south distances cancel out.

Short Method: North and south distances cancel out. He is 5 km east.

Q36: A person walks 9 km east, then turns left and walks 4 km, turns left again and walks 9 km, and finally turns left and walks 4 km. How far is he from the starting point?

Normal method: The person walks 9 km east, 4 km north, 9 km west, and 4 km south. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

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Q37: A man walks 5 km south, turns right and walks 7 km, then turns right again and walks 5 km. How far and in which direction is he from his starting point?

Normal method: The man walks 5 km south, 7 km west, and then 5 km north. He ends up 7 km west of his starting point as the south and north distances cancel out.

Short Method: South and north distances cancel out. He is 7 km west.

Q38: A person walks 6 km west, then turns right and walks 4 km, turns right again and walks 6 km, and finally turns right and walks 4 km. How far is he from the starting point?

Normal method: The person walks 6 km west, 4 km north, 6 km east, and 4 km south. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q39: A man walks 10 km north, turns right and walks 3 km, then turns right again and walks 10 km. How far and in which direction is he from his starting point?

Normal method: The man walks 10 km north, 3 km east, and then 10 km south. He ends up 3 km east of his starting point as the north and south distances cancel out.

Short Method: North and south distances cancel out. He is 3 km east.

Q40: A person walks 4 km north, then turns left and walks 6 km, turns left again and walks 4 km, and finally turns left and walks 6 km. How far is he from the starting point?

Normal method: The person walks 4 km north, 6 km west, 4 km south, and 6 km east. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q41: A person walks 7 km south, then turns left and walks 9 km, turns left again and walks 7 km, and finally turns left and walks 9 km. How far is he from the starting point?

Normal Method: The person walks 7 km south, 9 km east, 7 km north, and 9 km west. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q42: A man walks 12 km north, then 8 km east, then 12 km south, and finally 8 km west. How far is he from his starting point?

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Normal Method: The man walks 12 km north, 8 km east, 12 km south, and 8 km west. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q43: A person walks 5 km east, then turns left and walks 12 km, turns left again and walks 5 km, and finally turns left and walks 12 km. How far is he from the starting point?

Normal Method: The person walks 5 km east, 12 km north, 5 km west, and 12 km south. All movements cancel out, returning him to the starting point.

Short Method:

Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q44: A man walks 8 km south, then 15 km east, then 8 km north. How far and in which direction is he from his starting point?

Normal Method: The man walks 8 km south, 15 km east, and 8 km north. He ends up 15 km east of his starting point as the south and north distances cancel out.

Short Method: South and north distances cancel out. He is 15 km east.

Q45: A person walks 10 km north, then turns right and walks 7 km, then turns right again and walks 10 km. How far and in which direction is he from his starting point?

Normal Method: The person walks 10 km north, 7 km east, and then 10 km south. He ends up 7 km east of his starting point as the north and south distances cancel out.

Short Method: North and south distances cancel out. He is 7 km east.

Q46: A person moves 6 km east, then turns left and walks 10 km, turns left again and walks 6 km, and finally turns left and walks 10 km. How far is he from the starting point?

Normal Method: The person walks 6 km east, 10 km north, 6 km west, and 10 km south. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q47: A man walks 12 km north, then 5 km west, then 12 km south. How far and in which direction is he from his starting point?

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Normal Method: The man walks 12 km north, 5 km west, and then 12 km south. He ends up 5 km west of his starting point as the north and south distances cancel out.

Short Method: North and south distances cancel out. He is 5 km west.

Q48: A person walks 8 km east, then turns left and walks 15 km, then turns left again and walks 8 km. How far and in which direction is he from his starting point?

Normal Method: The person walks 8 km east, 15 km north, and then 8 km west. He ends up 15 km north of his starting point as the east and west distances cancel out.

Short Method: East and west distances cancel out. He is 15 km north.

Q49: A person walks 5 km north, then turns right and walks 9 km, then turns right again and walks 5 km. How far and in which direction is he from his starting point?

Normal Method: The person walks 5 km north, 9 km east, and then 5 km south. He ends up 9 km east of his starting point as the north and south distances cancel out.

Short Method: North and south distances cancel out. He is 9 km east.

Q50: A man walks 10 km south, then 6 km east, then 10 km north, and finally 6 km west. How far is he from his starting point?

Normal Method: The man walks 10 km south, 6 km east, 10 km north, and 6 km west. All movements cancel out, returning him to the starting point.

Short Method: Distances in opposite directions cancel each other out. He is 0 km from the starting point.

Q51: A person walks 12 km north, then turns right and walks 8 km, then turns right again and walks 12 km. How far and in which direction is he from his starting point?

Normal method: The person walks 12 km north, 8 km east, and then 12 km south. He ends up 8 km east of his starting point as the north and south distances cancel out.

Short method: North and south distances cancel out. He is 8 km east.

Q52: A man walks 15 km north, then turns left and walks 10 km, then turns left again and walks 15 km. How far and in which direction is he from his starting point?

Normal method: The man walks 15 km north, 10 km west, and then 15 km south. He ends up 10 km west of his starting point as the north and south distances cancel out.

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Short Method: North and south distances cancel out. He is 10 km west.

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