



MATHS

BOOKS - MCGROW HILL EDUCATION

MATHS (HINGLISH)

DIRECTION SENSE SET

Example

1. A man starts walking from his home southward s distance of 50 metres. He then

took a half turn towards right. In which direction is he walking now ?



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2. If south-east becomes North, North and so, on then what will west become ?



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3. A man is facing North-west. He turns 90° in the clockwise direction and then 135° in the anticlockwise direction. Which direction is he facing now ?



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4. A watch reads 4.30. If the minute hand points East, in what direction will the hour

hand point ?



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5. Komal walk 9 kilometers towards North. From there she walks 6 kilometres towards South. Then she walks 3 kilometers towards East. How far and in which direction is she with reference to her starting point



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6. A child is looking for his father. He went 90 metres in the east before turning to his right. He went 20 metres before turning to his right again to look for his father at his uncle's place 30 metres from this point. His father was not present there. From there, he went 100 metres to his North before meeting his father in a street. How far did the son meet his father from starting point ?



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7. One morning after sun rise, Gopal was standing facing a pole. The shadow of the pole fell exactly to his right. Which direction was he facing ?



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8. A boy rode his bicycle northward, then turned left and rode one km and again turned left and rode 2 kms. He found himself exactly one km west of his starting point. How far did he ride northwards initially ?



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9. The post office is to the east of the school while my house is to the South of the school. The market is to the North of the post office. If the distance of the market from the post office is equal to the distance of my house from the school, in which direction is the market with respect to my school ?



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10. A walks 10 metres in front and 10 metres to the right. Then every time turning to his left, he walks 5, 15 and 15 metres respectively. How far is the now from his starting point ?



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Exercise

1. A man is facing West. He turns 45° in the clockwise direction and then another 180° in the same direction and then 270° in the

anticlockwise direction. Which direction is he facing now ?

A. South

B. North west

C. North-east

D. South west

Answer: D



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2. One day, Ravi left home and cycled 10 kms southwards, turned right and cycled 5 kms and turned right and cycled 10 kms and turned left and cycled 10 kms. How many kilometres will he have to cycle to reach his home straight ?

A. 10 kms

B. 15 kms

C. 20 kms

D. 25 kms

Answer: B



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3. Mahesh walks 20 metres towards North. He then left and walks 40 metres. He again turns left and walks 20 metres. Further, he moves 20 metres after turning to the right. How far is the from his original position ?

A. 20m

B. 30 m

C. 50 m

D. 60 m

Answer: D



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4. Suresh walks 20 metres North. Then he turns right and walks 30 m. Then he turns right and walks 35 m. Then he turns left and walks 15 m. Then he gains turns left and walks 15 m. In which direction and how many metres away is he from his original position ?

A. 15m, West

B. 30m, East

C. 30 m, West

D. 45 m, East

Answer: D



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5. A man walks 1 km towards East and then he turns to South and walks 5 kms. Again he turns to East and walks 2 kms, after this he

turns to North and walks 9 kms. Now, how far is he from his starting point ?

A. 3kms

B. 4kms

C. 5 kms

D. 7 kms

Answer: C



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6. From his house, Lokesh went 15 kms to the North. Then he turned West and covered 10 kms. Then, he turned South and covered 5 kms. Finally turning to East, he covered 10 kms. In which direction is he from his house ?

A. East

B. West

C. North

D. South

Answer: C



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7. A rat runs 20 m towards East and turns to right, runs 10 m and turns to right runs 9 m and again turns to left, runs 5 m and turns to left runs 12 m and finally turns to left and runs 6m. Now which direction is the rat facing ?

A. East

B. West

C. North

D. North-east

Answer: C



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8. If A is to the south of B and C is to the east of B, in what direction is A with respect to C ?

A. Northe-east

B. North-west

C. South-east

D. South-west

Answer: D



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9. In the given figure, P is 300 km eastward of O and Q is 400 kms North of O, R is exactly in the middle of Q and P. The distance Q and R is :



A. 250 kms

B. $250\sqrt{2}$ kms

C. 300 kms

D. 350 kms

Answer: A



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10. Ravi wants to go to the school. He starts from his home which is in the East and comes to the crossing. The road to the left ends in a

theatre, straight ahead is the hospital. In which direction is the school ?

A. North

B. South

C. East

D. West

Answer: B



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11. Ankit, Bansi, Rohan and Sohan are friends. They play cards. Ankit and Bansi become partners. Sohan faces North. If Ankit faces towards West, then who faces towards South ?

A. Bansi

B. Rohan

C. Sohan

D. Data is inadequate

Answer: A



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12. P, Q, R and S are playing carrom game. P, R and S, Q are partners. S is to the right of R who is facing West. Then Q is facing what direction ?

A. North

B. South

C. East

D. West

Answer: B



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13. After walking 6kms, I turned right and covered a distance of 2 kms, then turned left and covered a distance of 10 kms. In the end, I was moving towards the North. From which direction did I start my journey ?

A. North

B. South

C. East

D. West

Answer: C



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14. If 'South-east' is called 'East', 'North-west' is called 'West', 'South-west' is called 'South' and so on, what will 'North' be called ?

A. East

B. North-east

C. North-west

D. South

Answer: C



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15. A watch reads 9:00 o'clock and I found that the hour hand is pointing South-east. In what direction, the minute hand of my watch is at that time ?

A. East

B. North

C. South

D. South-West

Answer: D



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16. One evening before sunset two friends Sumit and Mohit were talking to each other face to face. If Mohit's shadow was exactly to

his right side, which direction was Sumit facing ?

A. North

B. South

C. West

D. Data inadequate

Answer: B



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17. Four persons stationed at the four corners of a square piece as shown in the diagram. P starts crossing the field diagonally. After walking half the distance, he turns right, walks some distance and turns left. Which direction is P facing now ?



- A. North-east
- B. North-west
- C. North

D. South-east

Answer: B



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18. One morning after sun-rise, Reeta and Kavita were talking to each other face to face. If Kavita's shadow was exactly to the right to Reeta, which direction Kavita was facing ?

A. North

B. South

C. East

D. Data inadequate

Answer: A



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19. A clock is so placed that at 12 noon its minute hand points towards North-east. In which direction does its hour point at 1:30 p.m.

A. North

B. South

C. east

D. West

Answer: C



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20. While facing East, Rohit turns to his left and walks 10 metres, then he turns left and walks 10 metres. Now he turns 45° towards

his right and goes straight to cover 25 metres.

In which direction is he from his starting point

?

A. North-east

B. North-west

C. South -west

D. South-east

Answer: B



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21. A man is performing yoga with his head down and legs up. His face is towards the west. In which direction will his left hand be ?

A. North

B. South

C. East

D. West

Answer: A



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22. Anuj started walking positioning his back towards the sun. After sometime, he turned left, then turned right and then towards the left again. In which direction is he going now ?

A. North or South

B. East or West

C. North or West

D. South or West

Answer: A



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23. It is 3 O'clock in a watch. If the minute hand points towards the North-east, then the hour hand will point towards which direction ?

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

Answer: D



24. I start from my home and go 2 km straight. Then, I turn towards my right and go 1 km. I turn again towards my right and go 1 km again. If I am north-west from my house, then in which direction did I go to in the beginning ?

A. North

B. South

C. East

D. West

Answer: D



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25. Sunita's school bus is facing North when it reaches her school. After starting from Sunita's house, it turns right twice and then left before reaching the school. What direction was the bus facing when it left the bus stop in front of Sunita's house ?

A. North

B. South

C. east

D. West

Answer: D



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26. Two buses start from opposite points on a man road, 120 km apart. The first bus X runs for 25 kms and takes a right turn and runs for

another 15 kms. It then turns left and runs for another 25 kms and takes the direction back to reach the main road. In the mean time, due to minor breakdown, the other bus Y has run only 35 kms along the main road. What would be the distance between the two buses at his point ?

A. 35 kms

B. 45 kms

C. 50 kms

D. 55 kms

Answer: A



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