

# WORKSHEET FOR DISTANCE AND DIRECTION 1

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## Question 1

One day, Hemant left home and cycled 10 km southwards, turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. He is in which direction from the starting point?

A East

B West

C North

D South

## Question 2

Rizwan faces towards north. Turning to his right, he walks 25 metres. He then turns to his left and walks 30 metres. Next he moves 25 metres to his right. He then turns to his right again and walks 55 metres. Finally, he turns to the right and moves 40 metres. In which direction is he now from his starting point?

A South-West

B South

C North-West

D South-East

## Question 3

Avika walks 10 km towards North. From there she walks 6 km towards South. Then, she walks 3 km towards East. How far is she from her starting point?

A 5 km

B 6 km

C 5.5 km

D 6.5 km

## Question 4

I am standing at the centre of a circular field. I go down south to the edge of the field and then turning left I walk along the boundary of the field equal to three-eighths of its length. Then I turn west and go right across to the opposite point on the boundary. In which direction am I from the starting point?

A North-East

B North

C South-West

D West

## Question 5

Kartik walked 40 metres towards North, took a left turn and walked 20 metres. He again took a left turn and walked 40 metres. How far and in which direction is he from the starting point?

A 20m west

B 20m north

C 20m south

D 20m east

## Question 6

Akshat walked 30 metres towards East, took a right turn and walked 40 metres. Then he took a left turn and walked 30 metres. In which direction is he now from the starting point?

A North-East

B East

C South-East

D South

## Question 7

A person starts from a point A and travels 3 km eastwards to B and then turns left and travels thrice that distance to reach C. He again turns left and travels five times the distance he covered between A and B and reaches his destination D. The shortest distance between the starting point and the destination is

A 12 km

B 15 km

C 16 km

D 18 km



## Question 8

Niraj goes 30 metres North, then turns right and walks 40 metres, then again turns right and walks 20 metres, then again turns right and walks 40 metres. Now he is in which direction from the starting point?

A East

B West

C North

D South

## Question 9

Mayank walked 25 metres towards South. Then he turned to his left and walked 20 metres. He then turned to his left and walked 25 metres. He again turned to his right and walked 15 metres. At what distance is he from the starting point in which direction?

A 32m East

B 34m East

C 31m East

D 35m East

## Question 10

Starting from a point P, Sonal walked 20 m towards South. She turned left and walked 30 m. She then turned left and walked 20 m. She again turned left and walked 40 m and reached a point Q. How far and in which direction is the point Q from the point P?

A 20m West

B 10m South

C 10m West

D 10m North

## Question 11

Arijit travelled from a point X straight to Y at a distance of 80 metres. He turned right and walked 50 metres, then again turned right and walked 70 metres. Finally, he turned right, and walked 50 metres. How far is he from the starting point?

A 40m

B 20m

C 30m

D 10m

## Question 12

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

A 5m

B 10m

C 15m

D 20m

## Question 13

The door of Priya's house faces the East. From the back side of her house, she walks straight 50 metres, then turns to the right and walks 50 metres again. Finally, she turns towards left and stops after walking 25 metres. Now Priya is in which direction from the starting point?

A South-East

B North-West

C South-west

D North-East

## Question 14

The town of Ravanpur is located on Green Lake. The town of Varun is west of Ravanpur. Tundra is east of Varun but west of Ravanpur. Kakram is east of Bopri but west of Tundra and Varun. If they are all in the same district, which town is the farthest east?

A Ravanpur

B kakram

C Varun

D Bopri

## Question 15

Two ladies and two men are playing cards and are seated at North, East, South and West of a table. No lady is facing East. Persons sitting opposite to each other are not of the same gender. One man is facing South. Which directions are the ladies facing?

- A East and West
- B South and East
- C North and East
- D North and West



## Question(16-18)

Eight persons M through T are standing in such a way that O is 20 m apart from N towards West, N is 30 m South with respect to M. M is 40 m towards West with respect to Q. P is 50 m towards South with respect to Q. R is 15 m apart from S towards North. T is 20 m towards East with respect to S. R is 40 m towards West with respect to P.

## Question 16

In which direction is Q standing with respect to R?

A North-West

B North

C North-East

D Cannot be determined

E None of these

## Question 17

If one more person U is standing towards South-West with respect to P, then in which direction is T, standing with respect to U?

- A South-West
- B North-East
- C North-West
- D Cannot be determined
- E None of these

## Question 18

What is the direction of O with respect to S?

A North-West

B North

C West

D Cannot be determined

E None of these

**Question(19-21)Read the following information carefully and answer the questions given below it:**

- 1.  $M?N$  means N is to the right of M at a distance of two metre.**
- 2.  $M*N$  means N is to the North of M at a distance of two metre.**
- 3.  $M+N$  means N is to the left of M at a distance of two metre.**
- 4.  $M\%N$  means N is to the South of M at a distance of two metre.**
- 5. In each of the following questions all persons face North.**

## Question 19

If  $P\%Q+R*S$  then S is in which direction with respect to P?

A South-east

B East

C North

D West

E None of these

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## Question 20

If  $X$  is  $R$  %  $Y$  %  $Z$  then  $Z$  is in which direction with respect to  $R$ ?

A North

B West

C South-east

D South-west

E None of these

## Question 21

If  $T \perp U + V \cdot W$ , then  $V$  is in which direction with respect to  $T$ ?

A North

B South

C East

D North-east

E None of these



## Question(22-26)

**Directions : Study the following information carefully and answer the questions given below.It has been given that-**

**A is + from point B states B is to the NORTH of A.**

**A is = from point B states B is to the SOUTH of A.**

**A is || from point B states A is to the East of B.**

**A is \* from point B states A is to the WEST of B.**

## Question 22

Now, S is =20 m from point P. Point Q is =15 m from point R. Point U is +15 m from Point V. Point T is ||20 m from point V. Point U is ||16 m from point Q. Point R is ||30 m From point P.

What is the shortest between point S and Q?

A  $5\sqrt{37}$

B  $7\sqrt{37}$

C  $4\sqrt{65}$

D  $2\sqrt{37}$

## Question 23

What is the shortest distance between the point T and the point which is to the East of Q?

A 25

B 26

C 30

D 27

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## Question 24

U is in which direction with respect to P?

A East

B North-East

C South-West

D West

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## Question 25

Z is a point which at a distance of 46 m from point U towards West. Then what is the distance between point S and point Z and in which direction with respect to S?

A 4m north

B 5m south

C 7m east

D 6m west

## Question 26

R is in which direction with respect to T?

A North

B South

C South-West

D South-East

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**Question(27-30)Directions : Read the given instructions carefully and answer the questions beside-**

**A + B (5) = A is 10 m to the NORTH of B**

**A - B (7) = A is 12 m to the SOUTH of B**

**A \* B (12) = A is 17 m to the EAST of B**

**A / B (11) = A is 16 m to the West of B.**

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## Question 27

R / P (13), P / Q (19), S + Q (5), U / S (19), U - T (5)

What is the direction of S with respect to R?

A North-East

B East

C West

D South-East



## Question 28

What is the shortest distance between S and P?

A 28

B 25

C 26

D 23

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## Question 29

What is the direction of T with respect to Q?

- A North-East
- B North-West
- C South-East
- D South-West

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## Question 30

Which three points are in a straight line?

A SUT

B USQ

C TUP

D RPS

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# Answer Key

1.B	9.D	17.D	25.B
2.D	10.C	18.A	26.C
3.A	11.D	19.D	27.A
4.C	12.A	20.C	28.C
5.A	13.B	21.E	29.B
6.C	14.A	22.A	30.C
7.B	15.D	23.A	
8.C	16.C	24.B	

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