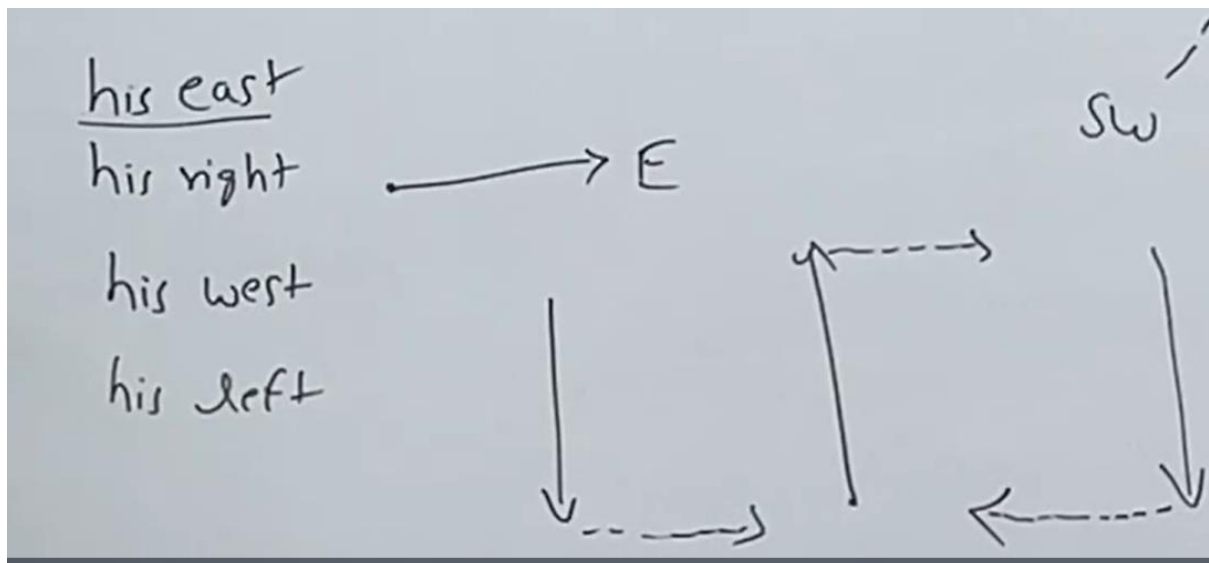
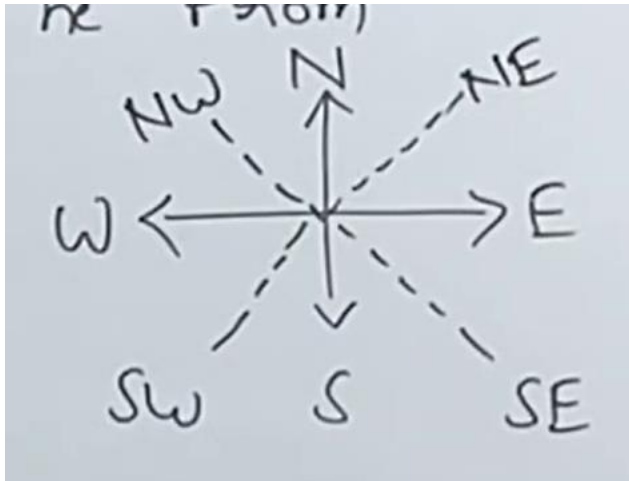
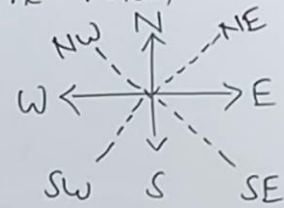
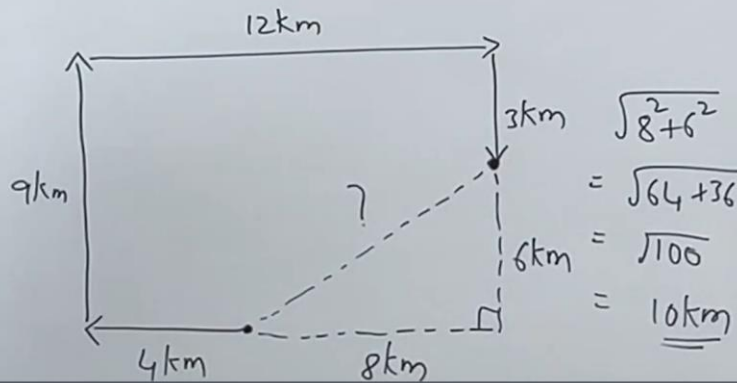


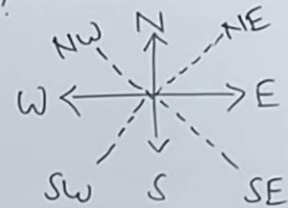
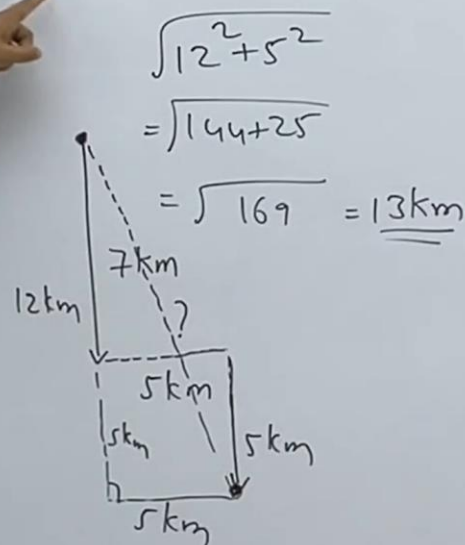
DIRECTIONS



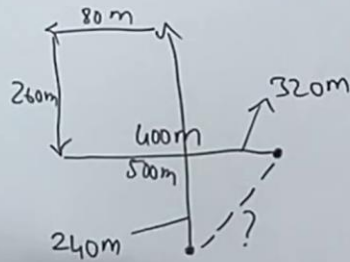
- Q) Ram walks 4km towards west, then turns to his right to travel 9km. He turns towards east and travels 12km. Finally, he travels 3km towards south. How far is he from initial position (in km)?



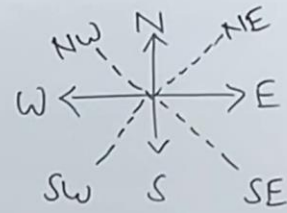
- Q) Laxman travels 7km towards South and then 5km towards his west. He further travels 5km towards South. How far is he from starting point?



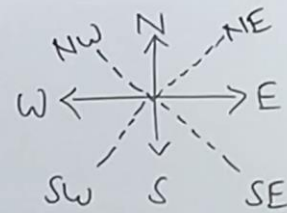
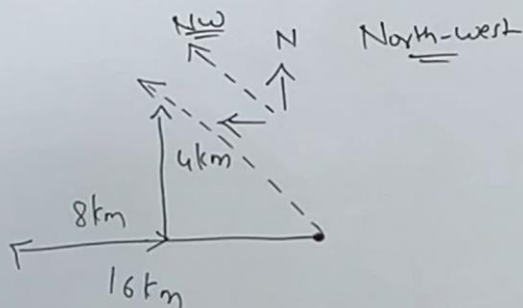
Q1) Rajesh travelled 500m from his house towards north. Then, he took left turn & travelled 80m, then 260m towards his left & again 400m towards his left. How far is he from starting point?



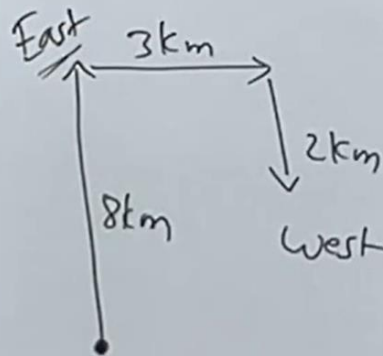
$$\begin{aligned} & \sqrt{240^2 + 320^2} \\ &= \sqrt{57600 + 102400} \\ &= \sqrt{160000} \\ &= \underline{\underline{400m}} \end{aligned}$$



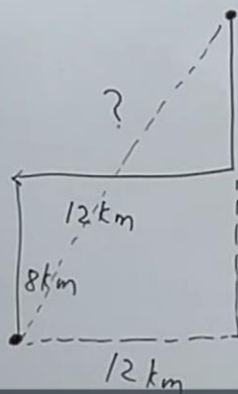
Q2) Sachin travels 16km towards west and from there he travels 8km towards east. Now, he goes 4km towards north. In which direction is he with respect to starting point?



Q) After travelling 8km, I turned right and travel 3km, then turned right and covered a distance of 2km. Now, if I am moving towards west, in which direction did I start my journey?



Q) From her house, Sneha travels 8km towards South. She then turns right and travels 12km. She again travels 8km towards left. How far is she from her house?

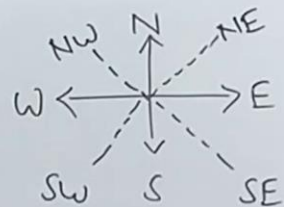


$$\sqrt{16^2 + 12^2}$$

$$8\text{km} = \sqrt{256 + 144}$$

$$= \sqrt{400}$$

$$= \underline{20\text{km}}$$

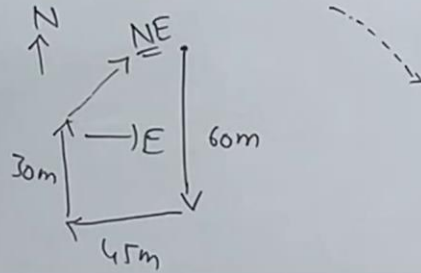
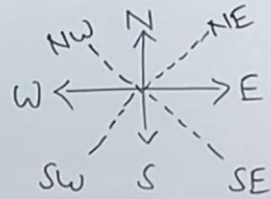


(Direction Sense)

Q) Kiran travelled a distance of 60m towards South.

Now he turns right and travels 45m.

He then travels 30m towards north and travels by turning 45° in clock-wise direction. In which direction is he travelling now?

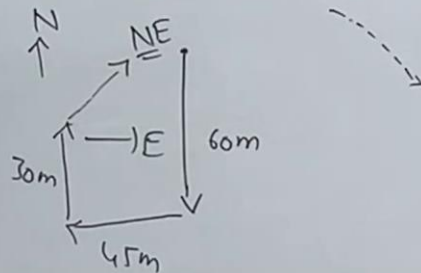
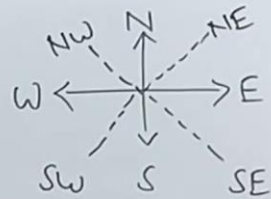


(Direction Sense)

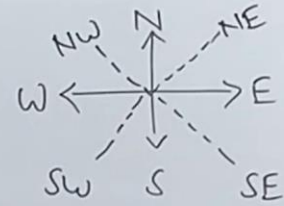
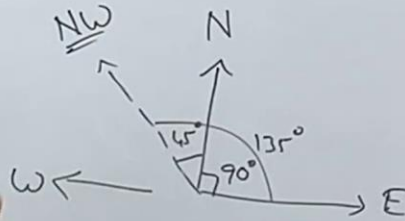
Q) Kiran travelled a distance of 60m towards South.

Now he turns right and travels 45m.

He then travels 30m towards north and travels by turning 45° in clock-wise direction. In which direction is he travelling now?

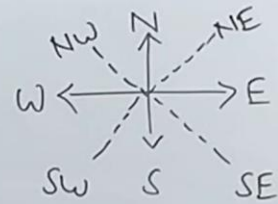
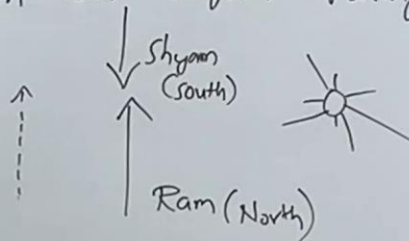


Q) Vishal, who is facing north, turns 90° in clock-wise and then, 135° in anti-clockwise direction. Which direction is he facing now?



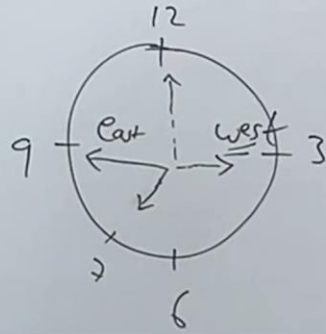
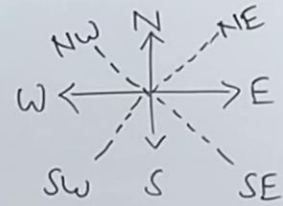
(Direction Sense)

Q) One-morning, Ram & Shyam were talking facing each other. It is observed that Ram's shadow fell towards his left. In which direction was Shyam facing?



(Direction sense)

Q) When a watch shows 7:45, the minute hand points towards East. When the watch shows 3:00 clock, which direction does the hour hand point?

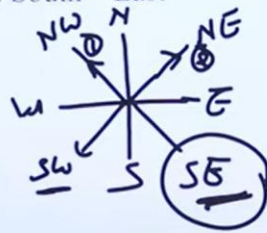


DIRECTIONS BASIC LEVEL TO HIGH LEVEL



1. A man is facing North - West. He turns 90° in the clockwise direction, then 180° in the anticlockwise direction and then another 90° in the same direction. Which direction is he facing now?

- 1) South 2) South - West 3) West
4) South - East 5) None



$$+90^\circ, -180^\circ, -90^\circ$$

2. John left for his office in his car. He drove 15 km towards north and then 10 km towards west. He then turned to the south and covered 5 km. Further, he took to the east and moved 8 km. Finally, he turned south and drove 10 km. How far and in which direction is he from his starting point?

- ☒ 1) 2 km West 2) 5 km East 3) 6 km south
 4) None of these 5) None



15N, 10W, 5S, 8E, 10S
2 West

3. Kumar walks 10 km towards North. From there he walks 6 kms towards South. Then, he walks 3 km towards East. How far and in which direction is he with reference to his starting point?

- 1) 5 km West 2) 7 km West 3) 7 km East
☒ 4) 5 km North-East 5) None

10N, 6S, 3E
 4N, 3E $\sqrt{16+9} = \sqrt{25} = 5$

4. Sanjeev walks 10 m towards the south. Turning to the left, he walks 20 m and then moves to his right. After moving a distance of 20m, he turns to the right and walks 20 m. Finally, he turns to the right and moves a distance of 10 m. How far and in which direction is he from the starting point? (2) At last in which direction is he moving now?

- 1) 10 m North ☒ 2) 20 m South 3) 20 m North
 4) 10 m South 5) None

10S, 20E, 20S, 20W, 10N

A watch reads 4.30. if the minute hand points East, in what direction will the hour hand point?

- 1) North 2) North – West 3) South – East
4) North – East 5) None

