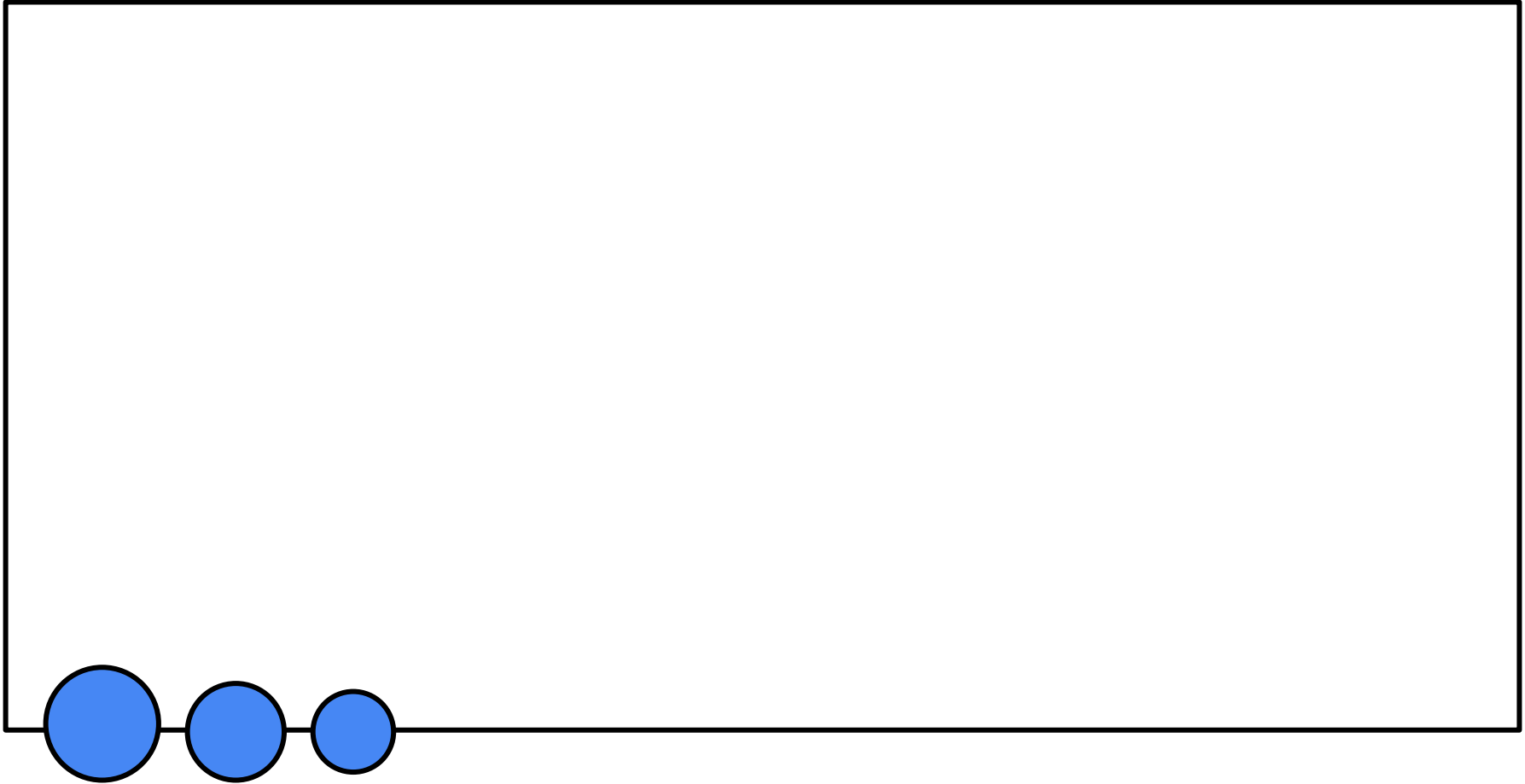




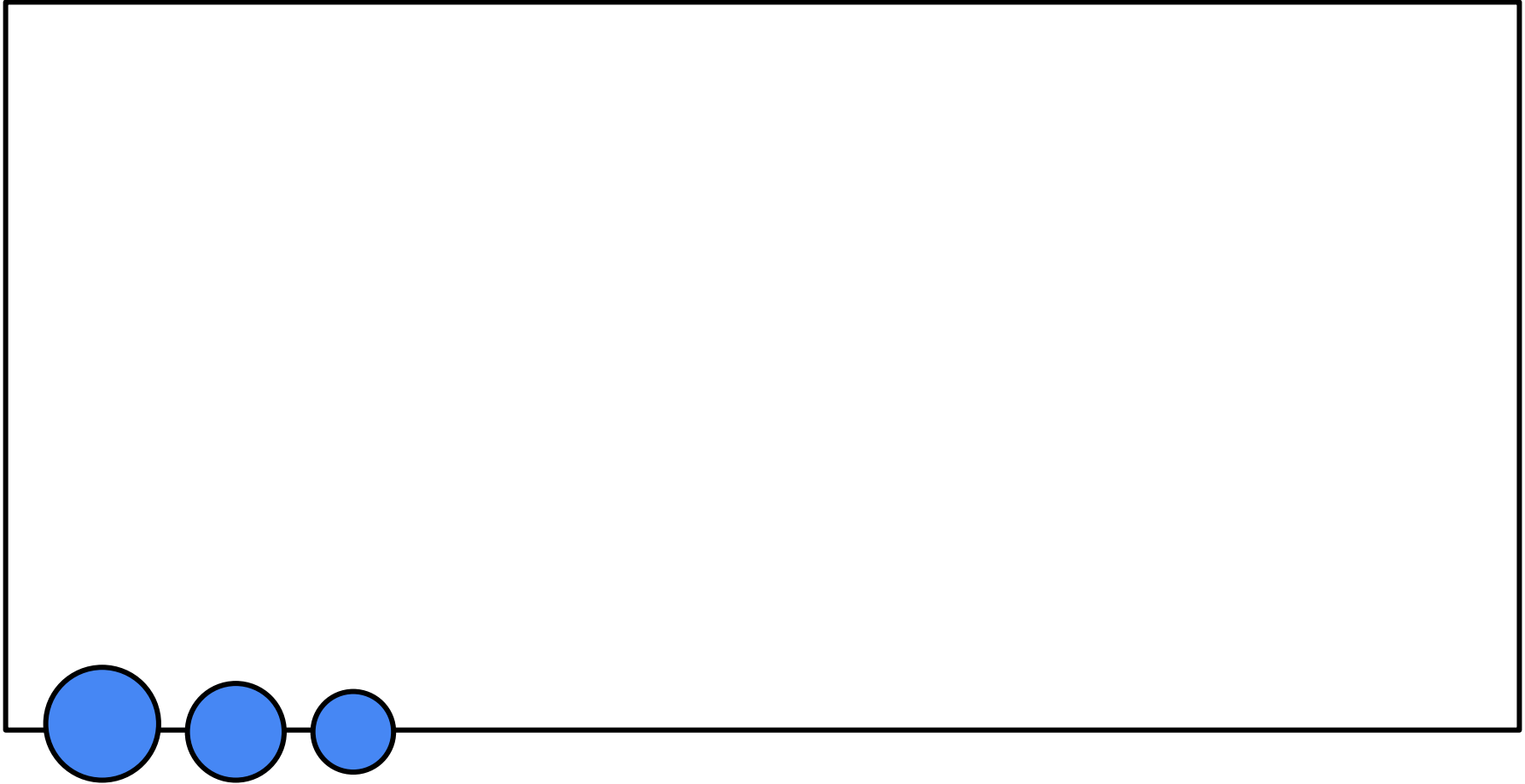
# **DISTANCE & DIRECTION**



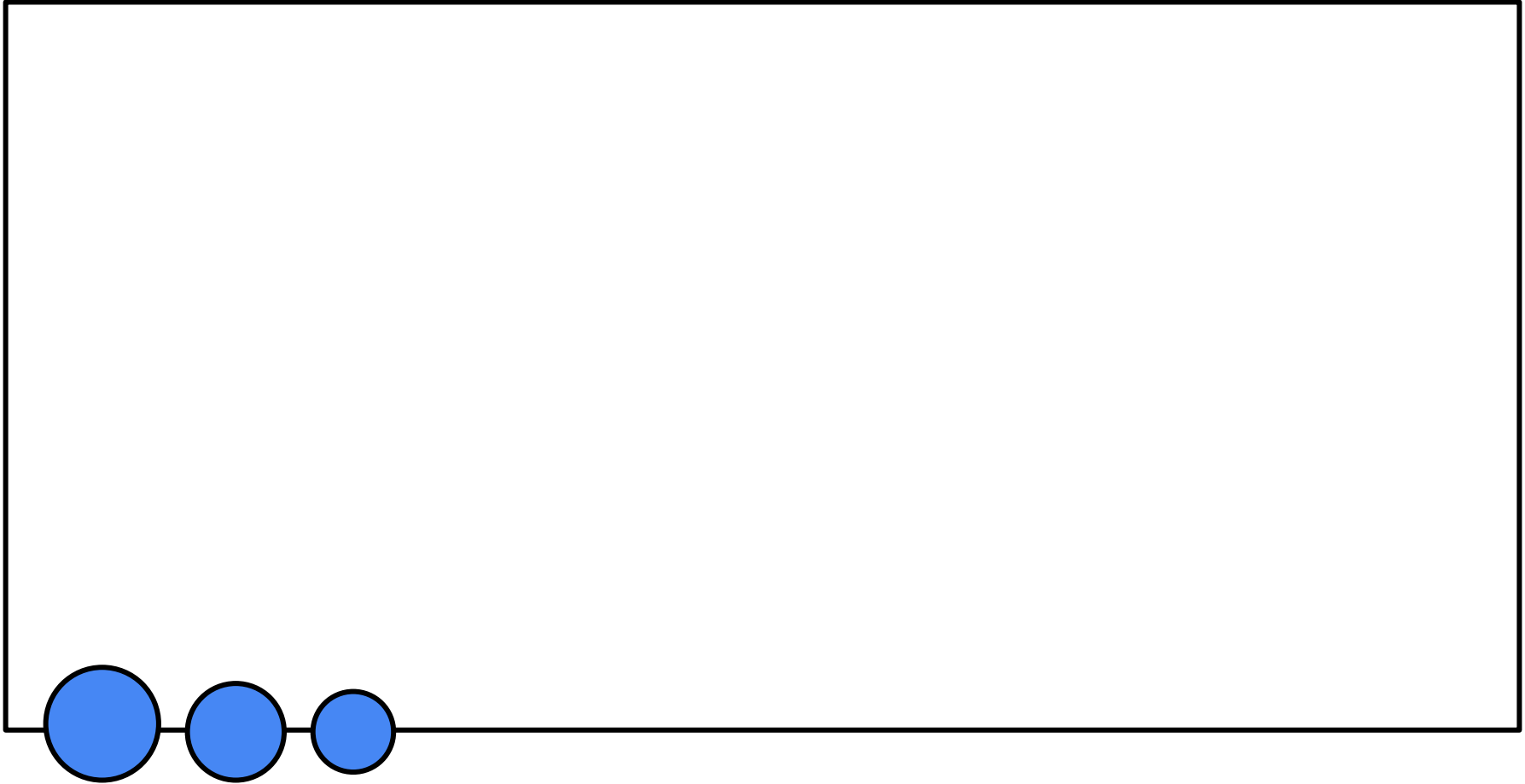
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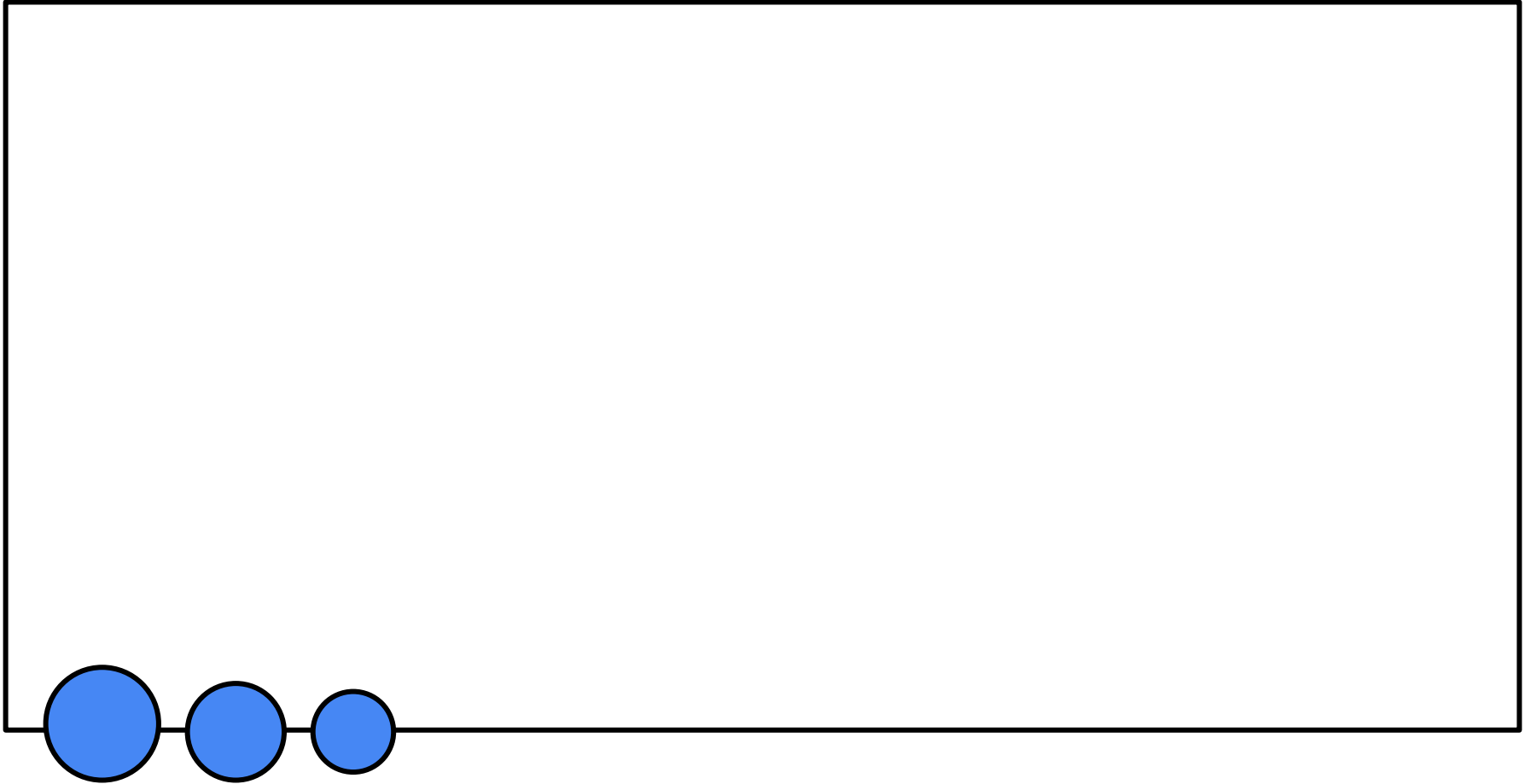
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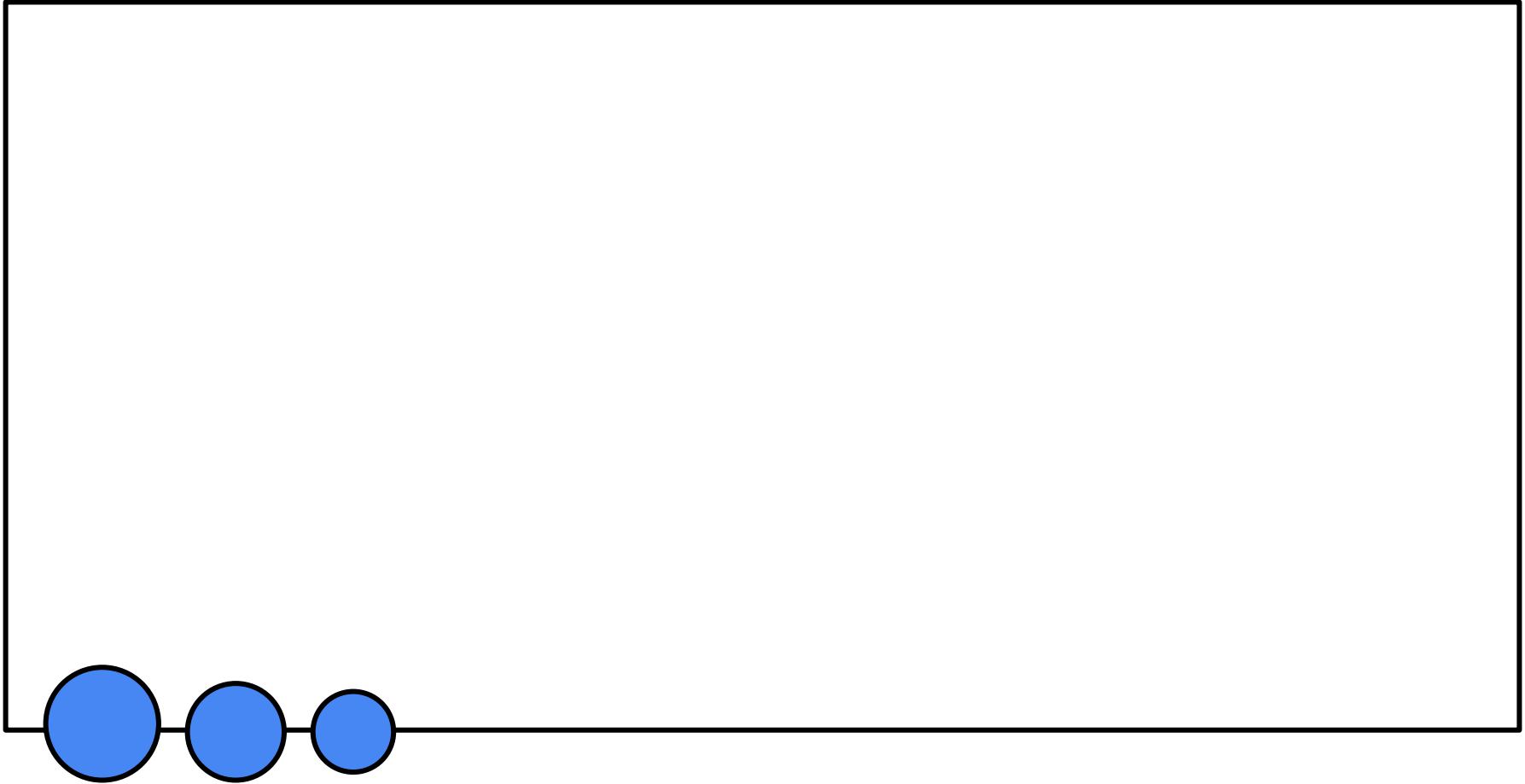
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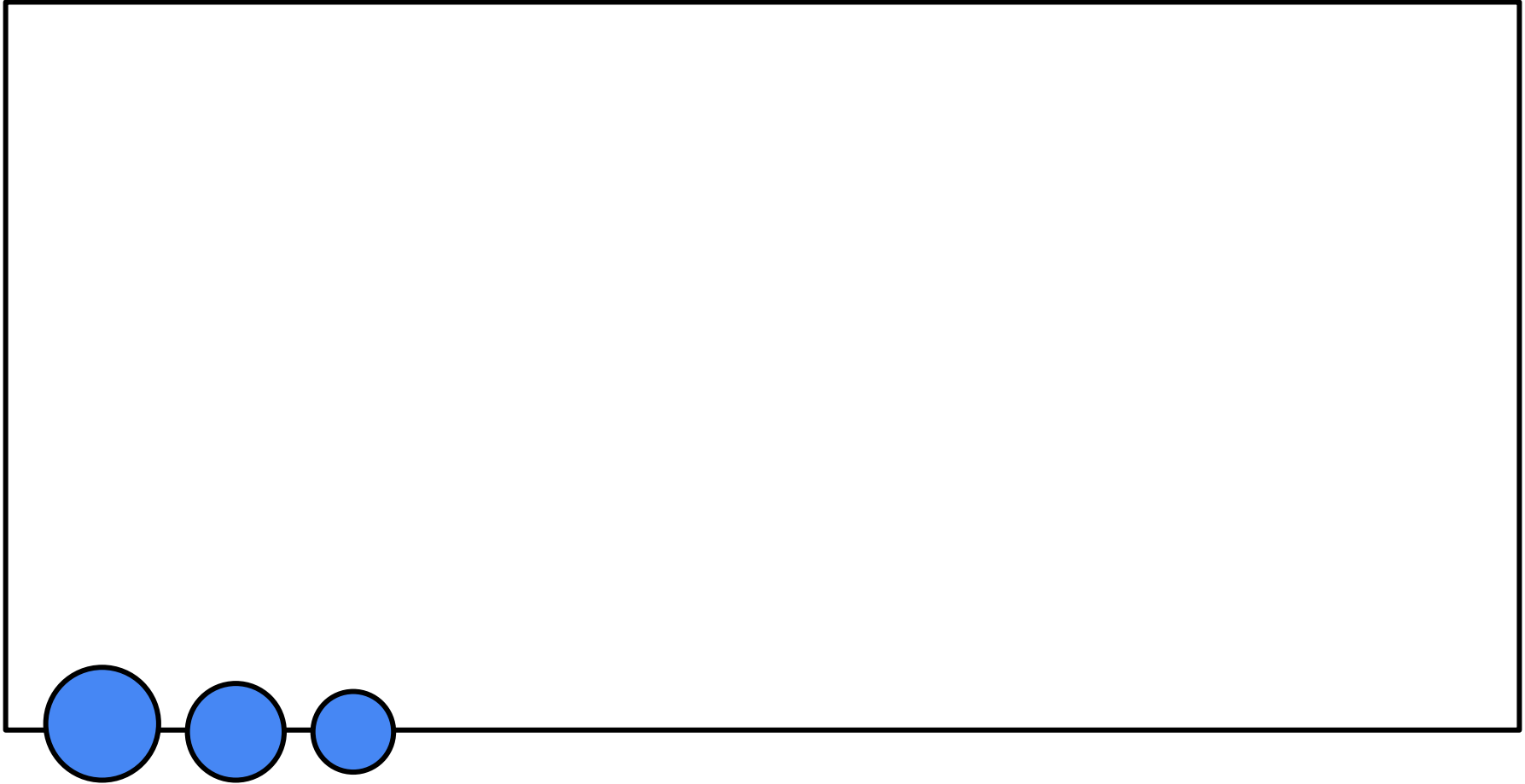
# DISTANCE & DIRECTION



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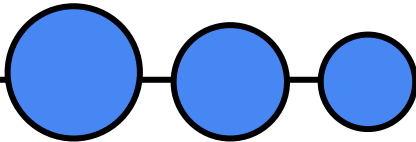


# DISTANCE & DIRECTION





# Class Questions





**Taneja starts from his office walks 22km towards south and walks 10m after taking right and he again take a right and walks 7m and then takes a left turn and walks 2km. Again, he moves 9m towards south. Finally he takes a left turn and walks 12 m. Find the distance between his final and initial position.**

A. 24m

B. 20m

C. 11m

D. 12m



Two army trucks start from same army base, 1st truck travels 11 km south, then turn to left and travel 19 km. 2nd truck travels 11 km west, then turns to its right and travel 5 km. Find the shortest distance between the final positions of both the truck?

- A. 36 km      B. 32 km      C. 17 km      D. 34 km



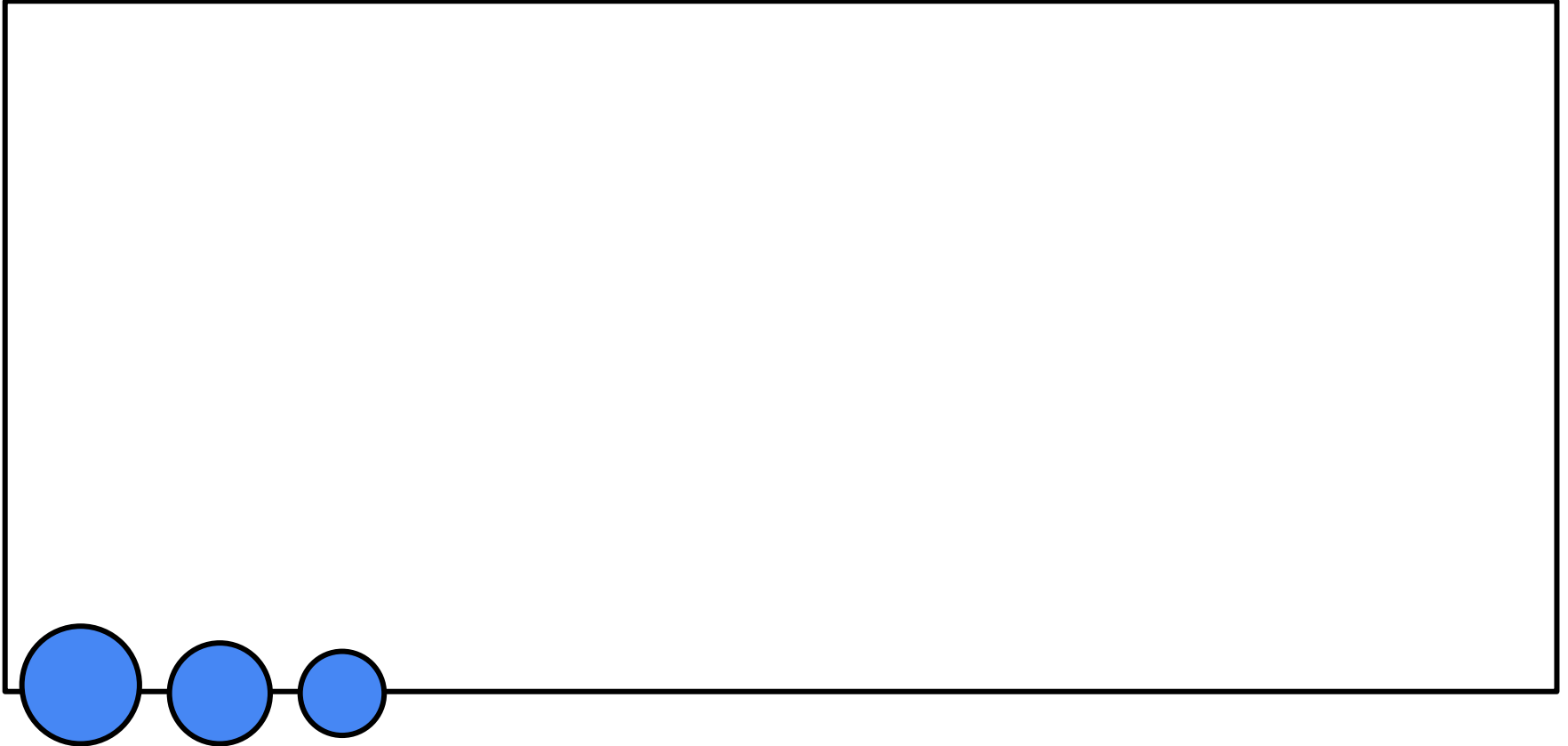
**One morning, Piyush and Ravi were talking, facing each other. It was observed that Piyush's shadow fell to his left. Then, which direction was Ravi facing?**

A. South

B. North-east

C. North

D. South-west



**Ravi started from his house and walked 13m east, then he takes a left and walked 7m. Then again he takes a left and walks 8m. He finally takes right and walked 5m. What is the shortest distance between his house and final point?**



- A. 15m      B. 12m      C. 13m      D. 11m



**Agrita walks 15m towards west, then she walks 4m towards north. Again she takes a turn and walks 3m towards the east. Finally she walked 9m towards south and comes to a halt. Agrita is how far from her initial position?**

A. 10m

B. 13m

C. 9m

D. 23m



**Shrimaan went to the station 15 km towards the North of his house. His wife Shrimati went to the market towards the West which is 8 km from the house. At this instant when both have reached their destinations, they start walking towards each other at the same time with the same speed along the shortest route between the station and the market. Where do they meet?**

A. 10m

B. 13m

C. 9m

D. 23m



**Shrimaan went to the station 15 km towards the North of his house. His wife Shrimati went to the market towards the West which is 8 km from the house. At this instant when both have reached their destinations, they start walking towards each other at the same time with the same speed along the shortest route between the station and the market. Where do they meet?**

- A. 8.5 km midway      B. 17 km midway      C. 10 km midway      D. 25 km midway





Two motorists start from opposite points on a main road. The distance between the two points is 250 km. One motorist travels for 50 km on the road and he could not ride further as his vehicle developed a snag. The other motorist travelled for 65 km on the main road, then took a left turn to travel 30 km. He now turned right and drove for 45 km. Finally, he turned to reach the main road and stopped when he touched the main road. Find the distance between the two motorists now.

- A. 190 km      B. 200 km      C. 160 km      D. 90 km





**Samir walks 8 km towards North. Then he turns right and walks a further 8 km. How far and in what direction is he from the starting point?**



A. 10 km towards North

B. 11 km towards North-east

C. 16 km towards North-east

D. None of theses



**A person is facing towards north east. He turns  $180^\circ$  clockwise and then  $45^\circ$  anticlockwise. Finally he turns  $60^\circ$  clockwise. Now, the person is facing in which direction?**

A. North East

B. South West

C. North West

D. South East



**Rupali is standing facing south. She walks 16km straight, then turns left and walks another 13km and turns right and walks 7km. Finally turns left and walks 9km to reach her office.**

**Which direction is she facing now?**

A. West

B. North

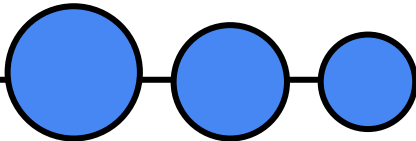
C. East

D. South





# Assignment Questions



**After travelling 10 kms, I turned left and travelled a distance of 5 km, then turned right and covered a distance of 5 km. Now I am moving towards West. Towards which direction did I start my journey?**

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



**Sharmila walks 100 m to the north direction from her house. Then she walks 40m to the south. Now she turns to her right and walks 80m. Find the distance between her initial and final point.**



- A. 60m      B. 40m      C. 80m      D. 100m





Rohit started from his house and walked for 15 m towards the East where his friend Kunal joined him. They walked 5 m together in the same direction and then Rohit turned left whereas Kunal turned to his right, travelling 10 m and 7 m respectively. Kunal turns left to travel 5 m followed by 2 m towards right to reach his office. Rohit turns to right and travels 5 m and reaches his office. What is the distance between the two offices and in which direction was Kunal travelling at the end?

A. 17m, West

B. 17m, East

C. 19m, North

D. 19m, South



**Shahana walks towards South for 15 km and then turns towards East to travel 10 km further. She then travels a distance of 6 km towards her right side and again 12 km towards the right side. Finally, she travels 17 km towards North. Find the horizontal distance travelled by her in the journey. Also, find the direction she is facing at the end of the journey?**

- A. 12 km, South      B. 2 km, North      C. 24 km, North      D. 12 km, East







**Maninder travels 5 km towards East and then travels 7 km South. He turns right to travel 11 km further. Now, he travels 5 km South and finally 4 km towards the left. How far is he approximately from his original position and in which direction?**

- A. 11 km towards North                      B. 12 km towards South- West  
C. 12 km towards North-east              D. 11 km towards South



**A is 13m south east of B and C is 12m south of B. In which direction is C with respect to A?**

A. West

B. North

C. East

D. South



**One night Raushan walked towards a star to his east, after sometime he turned right and again takes a right and walk for 4km. Finally he takes a left turn. In which direction is Raushan facing now?**



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



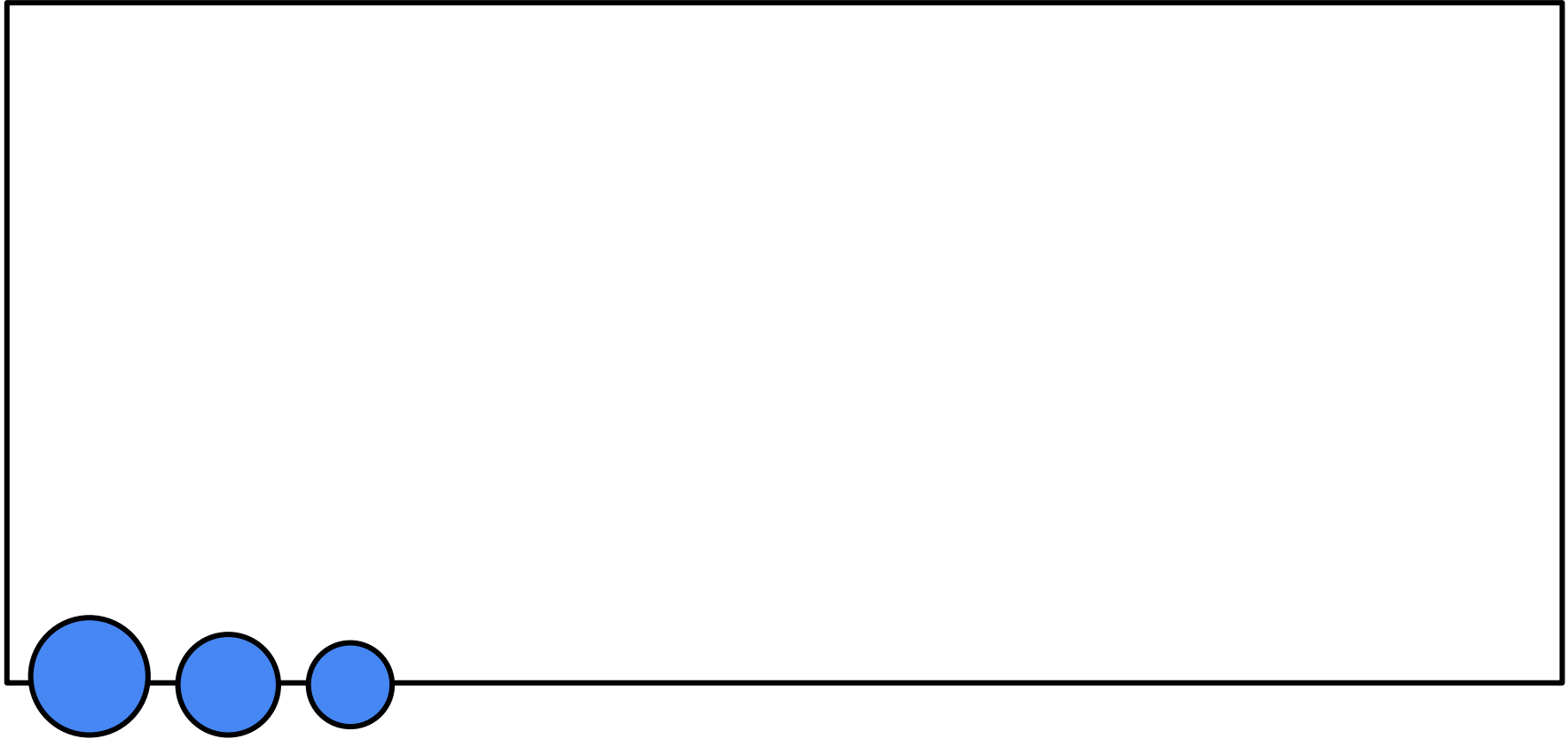
**Shiva travels 10 m towards West. He turns left and travels 15 m. Again he turns to his left and walks 10 m further. Finally, he walks 13 m towards North and then stops. At what vertical distance is he from his house?**

- A. 13m      B. 15m      C. 28m      D. 2m



**Kuber travels a distance of 7 km South, then travels 6 km East, and finally travels 15 km towards his left side. What is the distance between the final and the initial point in the journey?**

- A. 14 km      B. 11 km      C. 10 km      D. 15 km



**A person starts walking from his house to the nearby park. He travels 5 m to the East, then travels 10 m to the left and then travels 8 m to the right. He further travels 2 m North and finally travels 3 m East to reach the park. How far is the park from his house?**

A. 20 m

B. 40 m

C. 28 m

D. 25 m





**Thank you**

