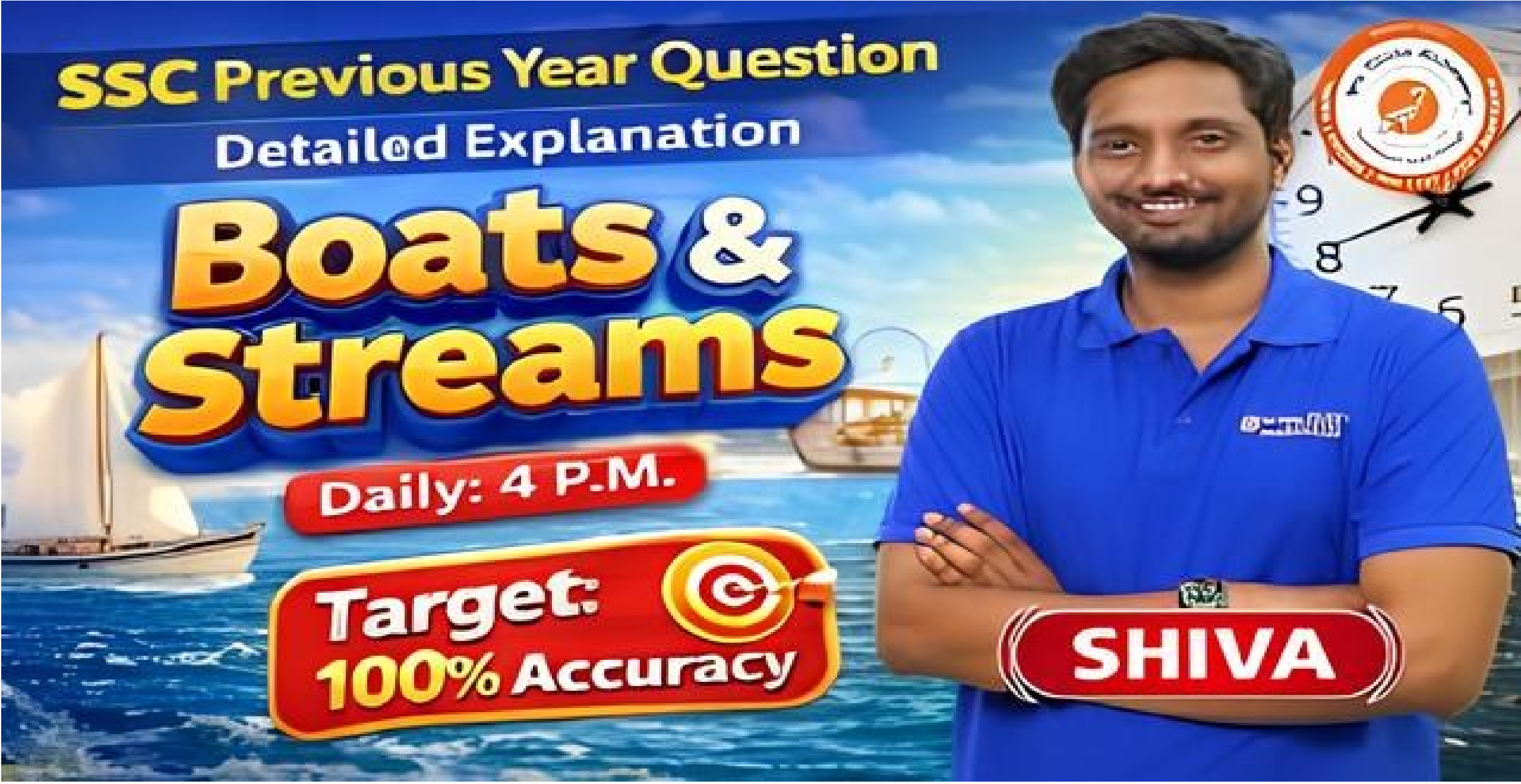
SSC Previous Year Question
Detailed Explanation
Boats & Streams
Daily: 4 P.M.
Target: 100% Accuracy
SHIVA

Time, Speed and Distance

A policeman noticed a thief at some distance. The policeman started running to catch the thief and the thief also started running at the same time. The speed of both the policeman and the thief was 12 km per hour and 10 km per hour, respectively. It took 30 minutes for the policeman to catch the thief. Find the initial distance (in metres) between them. SSC CGL 25/09/2024 (2nd Shift)

(a) 500
(b) 600
(c) 1000
(d) 100

A thief steals an item and escapes, running at 13.5 km/h. A policeman arrives at the spot of the crime after 8 minutes and immediately starts chasing the thief. 28 minutes after the policeman started to chase the thief, there is still a gap of 540 m between the two. At what distance from the spot of the crime would the policeman catch up with the thief, and what is the speed (in km/h) at which the policeman ran ? Graduate Level 26/06/2024 (Shift - 3)

(a) 11.2 km, 16.4

(b) 10.8 km, 16.2

(c) 12.96 km, 16.2

(d) 10.4 km, 16

A thief steals an item and escapes, running at a speed of 15 km/h. A policeman arrives at the spot of the crime after 4 minutes and immediately starts chasing the thief. 16 minutes after the policeman started to chase the thief; there is still a gap of 200 m between the two. At what distance from the spot of the crime will the policeman catch up the thief and what is the speed (in km/h) of the policeman ?
SSC CGL 25/07/2023 (4th shift)

(a) 5.5 km; 16.5
(b) 6 km; 18
(c) 6.5 km; 19.5
(d) 5 km; 15

A thief saw a policeman, and he started running at a speed of 18 m/s. After 12 seconds, the policeman starts running behind the thief at a certain speed. If the policeman covered 864 meters distance to reach the thief, then the speed (in m/s) of the policeman is: SSC MTS 30/09/2024 (Morning)

(a) 28
(b) 15
(c) 30
(d) 24

A policeman follows a thief, who is 150 metres ahead of him., and they run at the speed of 6 km/h and 5 km/h, respectively. What distance does the policeman cover to catch up with the thief ? SSC MTS 30/09/2024 (Afternoon)

(a) 880 metres

(b) 870 metres

(c) 890 metres

(d) 900 metres

A Policeman chases a thief. The speed of the policeman and thief are 10 kmph and 8 kmph, respectively. If the policeman started 15 minutes late, find the time taken by the policeman to catch the thief. SSC MTS 30/09/2024 (Afternoon)

(a) 15 minutes

(b) 45 minutes

(c) 30 minutes

(d) 60 minutes

A thief saw a policeman and he started running at a speed of 12 m/s. After a certain time, the policeman starts running behind the thief at a speed of 18 m/s. If the policeman covered a 540 m distance to catch the thief, the time (in seconds) after which the policeman started running is: SSC MTS 08/10/2024 (Morning)

(a) 10
(b) 12
(c) 15
(d) 18

A thief Rohan is spotted by a policeman Ramesh from a distance of 250 m. When they see each other, they start running. How much distance is covered by Rohan, who is running at the speed of 20 km/h, before being caught by Ramesh, who is running at the speed of 25 km/h ? SSC MTS 13/11/2024 (Afternoon)

(a) 10
(b) 12
(c) 15
(d) 18

A thief is spotted by a policeman from a distance of 195 metres. When the policeman starts the chase, the thief also starts running. If the speed of the thief is 22 km/h and that of the policeman is 27 km/h, then how far would the thief have run (in m) before he is overtaken ?
SSC CGL 19/09/2024 (3rd Shift)

(a) 825
(b) 951
(c) 858
(d) 958

A thief is spotted by a policeman from a distance of 100 m. The thief starts running and the policeman chases him. If the speed of thief and policeman are 21 km/h and 23 km/h, respectively, then how far will the thief have to run before he is over taken ? SSC CGL 24/09/2024 (1st Shift)

(a) 1020 m
(b) 1050 m
(c) 1090 m
(d) 1080 m

A policeman is chasing a thief at a speed of 82 km/h. The thief is 1300 m away and is running at a speed of 64 km/h. In how much time will the policeman catch the thief if both are riding on bikes ? SSC CGL 24/09/2024 (3rd Shift)

(a) 350 sec

(b) 260 sec

(c) 250 sec

(d) 300 sec

A thief takes off on his bike at a certain speed, after seeing a police car at a distance of 250 m. The police car starts chasing the thief and catches him. If the thief runs 1.5 km before being caught and the speed of the police car is 70 km/h, then what is the speed of thief's bike (in km/h) ? SSC CGL 26/09/2024 (2nd Shift)

(a) 65
(b) 60
(c) 55
(d) 50

A policeman received information that a thief is at a distance of 1.5 km from him. The thief starts moving by car and the policeman chases him by car. The thief and the policeman are moving at the speeds of 90 km/h and 120 km/h respectively. At what distance (in km) will the police catch the thief ? SSC CHSL 02/07/2024 (3rd Shift)

(a) 45.0 km

(b) 4.5 km

(c) 6 km

(d) 5 km

The speed of a thief is times $\frac{4}{5}$ the speed of a policeman. The thief covers a distance of 6 km before he was caught by the policeman in 30 minutes. Initially, what was the distance between the policeman and the thief in km ? SSC CHSL 09/07/2024 (4th Shift)

(a) 1.5
(b) 1.2
(c) 1.0
(d) 0.8

A policeman was asked to chase a thief. Before the policeman started the chase, he realised that the thief was 200 metres ahead of him and was running at a speed of 16 km/h. The policeman started the chase at a speed of 20 km/h. How far will the thief run before he is overtaken by the policeman ? SSC CHSL 10/07/2024 (2nd Shift)

(a) 600 m
(b) 700 m
(c) 800 m
(d) 1000 m

A thief is noticed by a policeman from a distance of 500 m. The thief starts running and the policeman chases him. The thief and the policeman run at the speed of 12 km/h and 13 km/h, respectively. What is the distance between them after 12 minutes? Matriculation Level 20/06/2024 (Shift - 4)

(a) 150 m
(b) 100 m
(c) 300 m
(d) 200 m

At 7 : 30 P.M. the owner of a Cycle noticed that a thief is taking away his cycle from his home and is cycling in a particular direction at an estimated speed of 10 km per hour. He informed the police about the theft and the policeman started from the same point, half an hour later than the time of the theft but with a speed of 12 km per hour. At what time will Policeman catch the thief ? SSC CPO 05/10/2023 (1st Shift)

(a) 10 : 00 PM.

(b) 10 : 30 P.M.

(c) 10 : 45 P.M.

(d) 9 : 30 P.M.

A thief steals an item and escapes, running at 20 km/h. A policeman arrives at the spot of the crime after 6 minutes and immediately starts chasing the thief. 24 minutes after the policeman started to chase the thief, there is still a gap of 400 m between the two. At what distance from the spot of crime would the policeman catch up with the thief, and what is the speed at which the policeman ran ? SSC CGL 26/07/2023 (1st shift)

(a) 15 km; 25 km/h

(b) 14.4 km; 24 km/h

(c) 10 km; 25 km/h

(d) 12 km ; 24 km/h

Thank You