

Udaan 2025

Maths

DHA: 6

Pair of Linear Equations in Two Variables

- Q 1** Points A and B are 90 km apart from each other on a highway. A car starts from A and another from B at the same time. If they go in the same direction they meet in 9 hours and if they go in opposite direction they meet in $\frac{9}{7}$ hours. Speed of car starting from point A is
(A) 30 km/hr (B) 90 km/hr
(C) 40 km/hr (D) 220 km/hr
- Q 2** Rohit can row downstream 32 km in 4 hours and upstream 4 km in 1 hour. Find his speed of rowing in still water and speed of the current.
(A) 6 km/hr, 2 km/hr
(B) 4 km/hr, 4 km/hr
(C) 20 km/hr, 4 km/hr
(D) 4 km/hr, 2 km/hr
- Q 3** A man can row 40 km upstream and 55 km downstream in 13 hours. Also, he can row 30 km upstream and 44 km downstream in 10 hours. Find the speed of the man in still water and the speed of the current.
(A) 8 km/hr, 5 km/hr
(B) 8 km/hr, 3 km/hr
(C) 5 km/hr, 3 km/hr
(D) 9 km/hr, 6 km/hr
- Q 4** 8 girls and 12 boys can finish work in 10 days, while 6 girls and 8 boys can finish it in 14 days. Find the time taken by the one girl alone and that by one boy alone to finish the work.
(A) 120, 130 (B) 140, 280
(C) 240, 280 (D) 100, 120
- Q 5** A train covered a certain distance at a uniform speed. If the train would have been 10 km/h faster, it would have taken 2 h less than the scheduled time and if the train was slower by 10 km/h, it would have taken 3 h more than the scheduled time. Then the distance covered by the train is
(A) 50 km (B) 300 km
(C) 600 km (D) 12 km

Answer Key

Q1 C
Q2 A
Q3 B

Q4 B
Q5 C



Hints & Solutions

Q 1 Text Solution:

40 km/hr

Video Solution:



Q 2 Text Solution:

6 km/hr, 2 km/hr

Video Solution:



Q 3 Text Solution:

8 km/hr, 3 km/hr

Video Solution:



Q 4 Text Solution:

140, 280

Video Solution:



Q 5 Text Solution:

600 km

Video Solution:



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