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10 Years of Excellence

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Vedic Mathematics

1. Speed of a train is 20 m/s. It can cross a pole in 10 s. What is the length of train?

[Delhi Police Constable 2018]

(a) 100 m   **(b) 200 m**
(c) 300 m   (d) 400 m

2. A train 100 m long is running at a speed of 30 km/h. Find the time taken by it to pass a man standing near the railway line.   **[SSC MTS 2015]**

(a) 16 s   **(b) 12 s**
(c) 4 s   (d) 24 s

3. A train with speed 40 km/h crosses a man moving in same direction of speed 25 km/h in 48 s. What will be the length of train?

[CGPSC Pre 2019]

(a) 50 m   (b) 100 m
(c) 200 m   (d) 400 m

4. Two trains of lengths 65 m and 105 m are moving in opposite directions at 7 m/s and 10 m/s, respectively. Find the time taken by the faster train to cross the slower train.

(a) 1 s   **(b) 10 s**
(c) 5 s   (d) 6 s

5. How much time will take a 130 m long train running at the speed of 45 km/h to cross a 245 m long platform?

[SSC CPO 2014]

(a) 15 s   (b) 20 s
(c) 30 s   (d) 35 s

6. A man is standing on a railway bridge which is 180 m long. He finds that a train crosses the bridge in 20 s but himself in 8 s. Find the length of the train.

[SSC CGL 2016]

(a) 80 m   (b) 60 m
(c) 100 m   **(d) 120 m**

7. Two trains are running in opposite direction with speed of 45 km/h and 63 km/h and ratio of their lengths is 3:2. If these two trains cross each other in 10

s, then find the actual length of both the trains.

[FCI 2016]

(a) 180 m and 120 m   (b) 120 m and 80 m
(c) 150 m and 200 m   (d) 210 m and 140 m

8. A train running at the speed of 20 m/s crosses a pole in 24 s less than the time it requires to cross a platform thrice its length at the same speed. What is the length of the train?

(a) 270 m   (b) 340 m
(c) 180 m   **(d) 160 m**

9. A man can row with a speed of 8 km/h in still water. Find the upstream speed of boat if the speed of stream is 4 km/h.

(a) 4 km/h   (b) 6 km/h
(c) 5 km/h   (d) 2 km/h

10. A man can row upstream at 8 km/h and downstream at 13 km/h. Find the speed of the stream.

(a) 2.5 km/h   (b) 4.2 km/h
(c) 5 km/h   (d) None of these

11. A sailor sails 72 km along with the flow of a river in 6 h. If it takes 18 h to return at the same point, then the speed of the flow of the river is

[SSC CPO 2013]

(a) 3 km/h   (b) 2 km/h
(c) 4 km/h   (d) 5 km/h

12. A man can row at 16 km/h in still water and finds that it takes him thrice as much time to row up than as the row down the same distance in the river. The speed of the current is

(a) 10 km/h   (b) 12 km/h
(c) 8 km/h   (d) 6 km/h

13. The speed of a boat in still water is 10 km/h. If it can travel 26 km downstream and 14 km upstream in the same time, the speed of the stream is

[AFCAT 2017]

(a) 3 km/h   (b) 4 km/h

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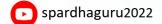
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(c) 5 km/h   (d) None of these

14. A boat covers 24 km upstream and 36 km downstream in 6 h while it covers 36 km upstream and 24 km downstream in 6 ½ h. The speed of the current is   [SSC CPO 2010]

(a) 10 km/h   (b) 1 km/h
(c) 3 km/h   **(d) 2 km/h**