

1. Train A of length 120 m can cross a platform of length 240 m in 18 s. The ratio of speed of train A and train B is 4: 5. Find the length of train B if it can cross a pole in 12 s.

[SBI PO 2018]

- (a) 280 m (b) 300 m  
(c) 320 m (d) 350 m  
(e) 240 m

2. A swimmer swims from a point A against a current for 5 min and then swims backwards in favour of the current for next 5 min and comes to the point B. If AB = 100 m, then speed of the current (in km/h) is

[SSC CGL 2013]

- (a) 1 (b) 0.6  
(c) 0.4 (d) 0.2

3. A man can row a certain distance against the stream in 6 h. However, he would take 2 h less to cover the same distance with the current. If the speed of the current is 2 km/h, then what is the rowing speed in still water?

[MAT 2014]

- (a) 10 km/h (b) 12 km/h  
(c) 14 km/h (d) 8 km/h

4. A man can row 6 km/h in still water. If the speed of the current is 2 km/h, it takes 3 h more in upstream than in the downstream for the same distance. The distance is

[SSC CGL 2011]

- (a) 30 km (b) 24 km  
(c) 20 km (d) 32 km

5. The time taken by a boat to travel 117 km downstream is 9 h and the speed of the stream is  $\frac{3}{10}$  of the speed of the boat. Find the distance travelled by the boat going upstream in 2 h?

[NIACL Assist. 2018]

- (a) 32 km (b) 14 km  
(c) 17 km (d) 20 km  
(e) None of these

6. A 75m long train overtook a person who was walking at the rate of 6 km an hour in the same direction and

passed him in  $7\frac{1}{2}$  s. Subsequently it overtook a second person (going in same direction as the train) and 3 passed him in  $6\frac{3}{4}$  s. At what rate was the 4 second person travelling?

[NIACL Assist. 2018]

- (a) 1 km/h (b) 2 km/h  
(c) 3 km/h (d) 4 km/h  
(e) None of these

7. A freight train left Delhi for Mumbai at an average speed of 40 km/h. Two hours later, an express train left Delhi for Mumbai, following the freight train on a parallel track at an average speed of 60 km/h. How far from Delhi would the express train meet the freight train?

[UPSC CSAT 2017]

- (a) 480 km (b) 260 km  
(c) 240 km (d) 120 km

8. Two stations, A and Bare 827 km apart from each other. A train starts from station A at 5 am and travel towards station B at 62 km/h. Another train starts from station Bat 7 am and travel towards station A at 59 km/h. At what time will they meet?

[SBI PO (Pre) 2015]

- (a) 1 : 00 pm (b) 11 : 45 am  
(c) 12 : 48 : 35 pm (d) 11 : 30 : 30 am  
(e) 1 : 37 : 45 am

9. Two trains 100 m and 95 m long, passes each other in 27 s when they run in the same direction and in 9 s when they run in opposite directions. The speeds of the two trains are

[SSC MTS 2013]

- (a) 36 km/h; 18 km/h (b) 40 km/h; 20 km/h  
(c) 44 km/h; 22 km/h (d) 52 km/h; 26 km/h

10. A train travelling at 48 km/h completely crosses an another train having half length of first train and travelling in opposite directions at 42 km/h in 12 s. It also passes a railway platform in 45 s. What is the length of the platform?

[CDS 2016 (II)]

- (a) 600 m (b) 400 m  
(c) 300 m (d) 200 m



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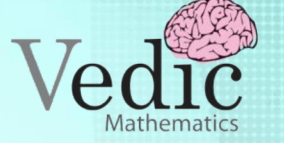
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11. A man can row against the current three-fourth of a kilometre in 15 min and returns same distance in 10 min, then ratio of his speed to that of current is

[SSC CGL 2010]

(a) 3 : 5

(b) 5 : 3

(c) 1 : 5

(d) 5 : 1

12. Two trains are running 40 km/h and 20 km/h, respectively in the same direction. The fast train completely passes a man sitting in the slow train in 5 s. The length of the fast train is [SSC CGL 2013]

(a)  $23\frac{2}{9}$  m

(b) 27 m

(c)  $27\frac{7}{9}$  m

(d) 23 m

13. Two trains, one is 160 m long and the second is x m long, were travelling in the same direction on parallel tracks. The 160 m long train came from behind at a speed of 76 km/h and overtook the x m long train travelling at a speed of 70 km/h. For 3 min, at least some parts of the two trains overlapped. What is the value of x?

[KVS LDC 2018]

(a) 130 m

(b) 144 m

(c) 150 m

(d) 140 m

14. A boat goes 8 km/h in still water. Along with the river, it travels from point A to point B which is 108 km away from point A thereafter it comes back and stops at point C which is somewhere in between A and B. If the speed of the stream is 4 km/h and boat takes 16 h for this journey, then find the time taken by boat to travel from point C to A against the river.

(a) 18 h

(b) 9 h

(c) 27 h

(d) 20 h

