

TOPIC: - SPEED, TIME AND DISTANCE

PRACTICE SET

1. A boy goes to the school with the speed of 3kmph and returns with the speed of 2kmph. If he takes 5 and hours in all, then the distance (in km) between the village and the school is:
a) 6
b) 12
c) 8
d) 9
e) None of these
2. A student walks from his house at 5kmph and reaches his school in 10 minutes late. If his speed had been 6kmph he would have reached 15 minutes early. The distance of his school from his house is:
a) 2.5 km
b) 12.5km
c) 5.5 km
d) 3.6 km
e) None of these
3. A train takes 18 seconds to pass completely through a station 162 m long and 15 seconds through another station 120 m long. The length of the train (in minutes) is:
a) 70
b) 80
c) 90
d) 100
e) None of these
4. Two trains of length 120 m are running in the same direction with velocities of 40 kmph and 50 kmph respectively. The time taken by them to cross each other is:
a) 60 sec
b) 72 sec
c) 75 sec
d) 80 sec
e) None of these
5. A train 240m long crosses a man, walking along the line in opposite direction at the rate of 3kmph in 10 seconds. The speed of the train is:
a) 63km/h
b) 75km/h
c) 83.4km/h
d) 86.4km/h
e) None of these
6. The distance between two cities A and B is 330 km. A train starts from A at 8 am. and travels towards B at 60 km/h. Another train starts from B at 9 am. and travels towards A at 75 km/hr. At what time do they meet?
a) 10 am
b) 10:30 am
c) 11 am
d) 11:30 am
e) None of these
7. Two men are standing on opposite ends of a bridge of 1200 metres long, If they walk towards each other at the rate of 5m/minute and 10m/ minute respectively, in how much time will they meet each other?
a) 60 minutes
b) 80 minutes

- c) 85 minutes
d) 90 minutes
e) None of these
8. A man riding his bicycle covers 150 metres in 25 seconds. What is his speed in km per hour?
a) 20 b) 21.6 c) 23
d) 25 e) None of these
9. A is travelling at 72 km per hour on a highway while B is travelling at a speed of 25 meters per second. What is the difference in their speeds in meters per second?
a) $1\frac{1}{2}$ m/sec b) 2 m/sec c) 3 m/sec
d) 5 m/sec e) None of these
10. A car covers a distance of 432 km at the speed of 48 km/hr. In how many hours will the car cover this distance?
a) 6 hours b) 7 hours c) 9 hours
d) 12 hours e) None of these
11. Two trains started at the same time, one from A to B and the other from B to A. If they arrived at B and A respectively 4 hours and 9 hours after they passed each other, the ratio of the speeds of the two trains was:
a) 2:1 b) 3:2 c) 4:3
d) 5:4 e) None of these
12. A starts from a place P to go to a place Q. At the same time B starts from Q to P. If after meeting each other A and B took 16 and 25 hours more respectively to reach their destinations, the ratio of their speeds is:
a) 3:2 b) 5:4 c) 9:4
d) 9:13 e) None of these
13. A train of 320 m cross a platform in 24 seconds at the speed of 120 km/h. While a man cross platform in 4 minute. What is the speed of man in m/s?
a) 2.4 b) 1.5 c) 1.6
d) 2.0 e) None of these
14. A train running at a speed of 60 kmph crosses a platform doubles its length in 32.4 seconds. What is the length of the platform?
a) 180 m b) 240 m c) 360 m
d) 90 m e) None of these
15. Train running at the speed of 66 kmph crosses a signal pole in 18 seconds. What is the length of the train?
a) 330 m b) 300 m c) 360 m
d) 320 m e) None of these

SOLUTIONS

1. a
2. b
3. c
4. b
5. c
6. c
7. b
8. b
9. d
10. c
11. b
12. b
13. d
14. c
15. a

