

PROFESSIONAL APTITUDE AND LOGICAL  
REASONING

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## Time, Speed and Distance – 1

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2018

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## TIME, SPEED &amp; DISTANCE - 1

- How long will it take for a person to cover 60000 meters who is going at a speed of 45 km per hour?  
(a) 1.33 hours (b) 80 minutes (c) Both (a) & (b) (d) None of these
- There are two towns X and Y. Amit goes from X to Y at 40 km per hour and comes back to the town X on the same route at a certain speed. Then what is his average speed over the journey?  
(a) 31.5 km/h (b) 34.3 km/h (c) 35 km/h (d) 37.5 km/h
- There are two towns P and Q. Raj goes from P to Q at 20 km per hour and comes back to the town P on the same route at a certain speed. If his average speed over the journey is 32 km per hour then what was his speed in the return journey?  
(a) 80 km/h (b) 26 km/h (c) 44 km/h (d) None of these
- Rahul goes to school from his village at 3 km/h and returns back at 2 km/hr. If he takes 5 hours in all, what is the distance between village and school?  
(a) 5.75 km (b) 6 km (c) 12 km (d) None of these
- Walking at  $(5/6)$ th of his usual speed a man reaches 12 minutes late. Find his usual time to cover the journey.  
(a) 1 hour (b) 20 minutes (c) 50 minutes (d) None of these
- A burglar was 2.16 km ahead of cop when cop started chasing him. How long will it take for cop to chase the burglar when the speed of cop & burglar is 15m/sec and 11m/sec, respectively?  
(a) 18 minutes (b) 27 minutes (c) 4.5 minutes (d) 9 minutes
- A certain distance is covered at a speed V km/h. If half of the same distance is covered in double the time, then the ratio for the former speed to that of the latter is  
(a) 4:1 (b) 1:4 (c) 2:1 (d) 1:2
- An express train travels 299 km between two cities. During the first 111 km of the trip, the train travelled through mountainous terrain. The train travelled 10 km/h slower through mountainous terrain than through level terrain. If the total time to travel between two cities was 7 h, what is the speed of the train on level terrain?  
(a) 56 kmph (b) 55 kmph (c) 47 kmph (d) 88 kmph
- Deccan express which goes from Hyderabad to Chennai leaves Hyderabad at 5:30 am and travels at a constant speed of 50 km/h towards Nalgonda which is 100 km away. At 6:00 am, Khema express leaves from Nalgonda for Hyderabad at a constant speed of 40 km/h. At 6:30 am Mr. Raut, the Control Officer realizes that both the trains are on the same track. How much time does Mr. Raut have to avert the accident?  
(a) 20 min (b) 30 min (c) 25 min (d) 15 min
- Arun covers a certain distance on a toy train. If the train moved 4 km/h faster, it would take 30 min less to cover the same distance. If it moved 2 km/h slower, it would have taken 20 min more to cover the same distance. Find the distance.  
(a) 60 km (b) 45 km (c) 30 km (d) 20 km

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- The average speed of a train is 20% less on the return journey than during the forward journey. The train halts for half an hour at the destination station before starting on the return journey. If the total time taken for complete (forward and back) journey is 23 h, covering a distance of 1000 km, the speed of the train on the return journey is \_\_\_\_?  
(a) 60 kmph (b) 40 kmph (c) 50 kmph (d) 55 kmph
- Two trains move from station Utarlai and station Pathankot towards each other at the speed of 50 km/h and 60 km/h respectively. At the meeting point, the driver of the second train felt that the train has covered 120 km more than the first train. What is the distance between Utarlai and Pathankot?  
(a) 1320 km (b) 1100 km (c) 900 km (d) 1000 km
- The length of a train and that of a platform are equal. If with a speed of 90 km/h, the train crosses the platform in one minute, then the length of the train (in meters) is:  
(a) 500 (b) 600 (c) 750 (d) 900
- 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/hr. 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) 1 pm
- In a kilometer race, Amit beats Bahadur by 100 m and Bahadur beats Chandra by 200 m. By how many metres does Amit beat Chandra in the same race?  
(a) 100 m (b)  $83\frac{1}{3}$  m (c) 68 m (d) 280 m
- On an escalator, it took me 30 seconds and 26 steps to reach bottom. However if I'm able to step down 34 stairs I would only require 18 seconds to go to bottom. How many steps are there when escalator is idle?  
(a) 20 (b) 30 (c) 46 (d) Indeterminable
- On an escalator, it took me 30 seconds and 36 steps to reach bottom. However if I'm able to step down 44 stairs I would only require 24 seconds to go to bottom. How many steps are there when escalator is idle?  
(a) 40 (b) 76 (c) None of (a) & (b) (d) Indeterminable
- A car travels from Patna to Jehanabad at a speed of 65 km/h in one hour. If the speed is reduced by 15 km/h then, how much more time will the car take to cover the same distance?  
(a) 12 min (b) 16 min (c) 18 min (d) 44 min
- In a kilometer race, A beats B by 10 m. In a two kilometers race, A beats B by  
(a) 10 m (b) 20 m (c) 40 m (d) 25 m
- Two persons are walking with the speed A and B respectively. If the first person takes ten min less to cover a distance, what is the time taken by the second person to cover the same distance provided A: B = 3:2?  
(a) 20 min (b) 30 min (c) 10 min (d) 50 min

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## Time, Speed &amp; Distance 1 Answers

PALR Lesson Ans Key	
TSD1	
1	c
2	b
3	a
4	b
5	a
6	d
7	a
8	c
9	c
10	a
11	d
12	b
13	b
14	c
15	d
16	c
17	b
18	c
19	b
20	b