**TIME, SPEED AND DISTANCE**

**1.**A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?  
**A.3.6 B.7.2 C.8.4 D.10**

**2.**An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1 hours, it must travel at a speed of:  
**A.300kmph B.360kmph C.600kmph D.720 kmph**

**3.**If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is:   
**A.50km B.56km C.70km D.80km**

**4.**In a flight of 600 km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of flight increased by 30 minutes. The duration of the flight is:   
**A.1hour B.2hours C.3 hours D.4 hours**

**5.**A man complete a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.  
**A. 220 km B. 224 km C. 230 km D. 234 km**

**6.**Starting from my office, I reach the house 20 min late if I walk at 3kmph. Instead, if I walk at 4 kmph, I reach the house 15 min early. How far is my house from my office?  
**A.4km B.5km C.7 km D.6 km**

**7.**The ratio between the speeds of two trains is 7 : 8. If the second train runs 400 km in 4 hours, then the speed of the first train is:  
**A.70km/hr B.75km/hr C.84 km/hr D.87.5km/hr**

**8.**A man on tour travels first 160 km at 64 km/hr and the next 160 km at 80 km/hr. The average speed for the first 320 km of the tour is:  
**A.35.55km/hr B.36km/hr C.71.11km/hr D.71 km/hr**

**9.**The speed of a car increases by 2 kms after every one hour. If the distance travelling in the first one hour was 35 kms. what was the total distance travelled in 12 hours?  
**A.456kms B.482kms C.552kms D.556kms**

**10.**The distance between two cities A and B is 330 Km. A train starts from A at 8 a.m. and travel towards B at 60 km/hr. Another train starts from B at 9 a.m and travels towards A at 75 Km/hr. At what time do they meet?  
**A.10a.m B.10.30a.m C.11a.m D.11.30 a.m**

**11.**A thief is noticed by a policeman from a distance of 200 m. The thief starts running and the policeman chases him. The thief and the policeman run at the rate of 10 km and 11 km per hour respectively. What is the distance between them after 6 minutes?  
**A.100m B.150m C.190m D.200m**

**12.**Ram walks at a speed of  12 km/h. Today the day was very hot so walked at ⅚ of his average speed. He arrived his school 10 minutes late. Find the usual time he takes to cover distance between his school and home ?  
**A.40mins C.50mins B.45mins D.60mins**

**13.**Jim travels the first 3 hours of his journey at 60 mph speed and the remaining 5 hours at 24 mph speed. What is the average speed of Jim's travel in mph?   
**A.42mph B.36mph C.37.5mph D.42.5mph**

**14.**In covering a distance of 30 km, Abhay takes 2 hours more than Sameer. If Abhay doubles his speed, then he would take 1 hour less than Sameer. Abhay's speed is:  
**A.5kmph B.6kmph C.6.25kmph D.7.5kmph**

**15.**Robert is travelling on his cycle and has calculated to reach point A at 2 P.M. if he travels at 10 kmph, he will reach there at 12 noon if he travels at 15 kmph. At what speed must he travel to reach A at 1 P.M.?   
**A.8kmph B.11kmph C.12kmph D.14kmph**

**16.**A farmer travelled a distance of 61 km in 9 hours. He travelled partly on foot @ 4 km/hr and partly on bicycle @ 9 km/hr. The distance travelled on foot is:   
**A.14km B.15km C.16km D.17km**

**17.**A man covered a certain distance at some speed. Had he moved 3 kmph faster, he would have taken 40 minutes less. If he had moved 2 kmph slower, he would have taken 40 minutes more. The distance (in km) is:   
**A.35 B.36.33 C.37.5 D.40**

**18.**Walking at the rate of 4 kmph a man cover certain distance in 2 hr 45 min. Running at a speed of 16.5 kmph the man will cover the same distance in.  
**A.12min B.25min C.40min D.60min**

**19.**A train covers a distance in 50 min, if it runs at a speed of 48 kmph on an average. The speed at which the train must run to reduce the time of journey to 40 min will be.  
**A.45kmph B.60kmph C.75kmph D.None of these**

**20.**A passenger train takes two hours less for a journey of 300 km if its speed is increased by 5 km/hr from its normal speed. The normal speed is:  
**A.35km/hr B.50km/hr C.25km/hr D.30km/hr**

**21.**Two stations *A* and *B* are 110 km apart on a straight line. One train starts from *A* at 7 am and travel towards *B* at 20 km/hr speed. Another train starts from *B* at 8 am and travel towards *A* at 25 km/hr speed. At what time will they meet?  
**A.9am B.10am C.11am D.None of these**

**22.**X and Y start walking towards each other at 10 am at speeds of 3 km/hr and 4 km/hr respectively. They were initially 17.5 km apart. At what time do they meet?  
**A.2:30pm B.11:30pm C.1:30pm D.12:30pm**

**23.**Walking at 3/4 of his usual place, a man reaches his office 20 minute late. Find his usual time?  
**A.2hr B.1hr C.3hr D.1.5hr**

**24.**Ram covers a part of the journey at 20 kmph and the balance at 70 kmph taking total of 8 hours to cover the distance of 400 km. How many hours has he been driving at 20 kmph?  
**A.2hours B.3hours20minutes  
C.4hours40minutes D.3hours12minutes**

**25.**I travel the first part of my journey at 40 kmph and the second part at 60 kmph and cover the total distance of 240 km to my destination in 5 hours. How long did the first part of my journey last?  
**A.4hours B.2hours C.3hours D.2hours24minutes**

**26.**Rajesh walks to and fro to a shopping mall. He spends 30 minutes shopping. If he walks at speed of 10 km an hour, he returns to home at 19.00 hours. If he walks at 15 km an hour, he returns to home at 18.30 hours. How fast must he walk in order to return at 18.15 hours?  
**A.17km/hr B.18km/hr C.19km/hr D.20km/hr**

**27.**Arun, Barun and Kiranmala start from the same place and travel in the same direction at speeds of 30, 40 and 60 km per hour respectively. Barun starts two hours after Arun.  
If Barun and Kiranmala overtake Arun at the same instant, how many hours after Arun did Kiranmala start?  
**A.3.0 B.3.5 C.4.0 D.4.5**

**28.**A train can travel 50% faster than a car. Both start from point A at the same time and reach point B 75 kms away from A at the same time. On the way, however, the train lost about 12.5 minutes while stopping at the stations. The speed of the car is:   
**A.100kmph B.110kmph C.120kmph D.130 kmph**

**BOAT AND STREAM**

**29.**A boat can travel with a speed of 13 km/hr in still water. If the speed of the stream is 4 km/hr, find the time taken by the boat to go 68 km downstream.  
**A.2hrs B.3hrs C.4hrs D.5hrs**

**30.**A boat running downstream covers a distance of 16 km in 2 hours while for covering the same distance upstream, it takes 4 hours. What is the speed of the boat in still water?  
**A.4km/hr B.6km/hr C.8 km/hr D.Data inadequate**

**31.**A man's speed with the current is 15 km/hr and the speed of the current is 2.5 km/hr. The man's speed against the current is:   
**A.8.5km/hr B.9km/hr C.10km/hr D.12.5km/hr**

**32.**A boat running upstream takes 8 hours 48 minutes to cover a certain distance, while it takes 4 hours to cover the same distance running downstream. What is the ratio between the speed of the boat and speed of the water current respectively?   
**A.2:1 B.3:2 C.8:3 D.Can’t be det.**

**33.**A motorboat, whose speed in 15 km/hr in still water goes 30 km downstream and comes back in a total of 4 hours 30 minutes. The speed of the stream (in km/hr) is:  
**A.4 B.5 C.6 D.10**

**34.**In one hour, a boat goes 11 km/hr along the stream and 5 km/hr against the stream. The speed of the boat in still water (in km/hr) is:  
**A.3 km/hr B.5 km/hr C.8 km/hr D.9 km/hr**

**35.**A boat running downstream covers a distance of 16 km in 2 hours while for covering the same distance upstream, it takes 4 hours. What is the speed of the boat in still water?  
**A.4 km/hr B.6 km/hr C.8 km/hr D.Data inadequate**

**36.**A boat takes 90 minutes less to travel 36 miles downstream than to travel the same distance upstream. If the speed of the boat in still water is 10 mph, the speed of the stream is:  
**A.2 mph B.2.5 mph C.3 mph D.4 mph**

**37.**A man can row at 5 kmph in still water. If the velocity of current is 1 kmph and it takes him 1 hour to row to a place and come back, how far is the place?  
**A.2.4 km B.2.5 km C.3 km D.3.6 km**

**38.**A boat covers a certain distance downstream in 1 hour, while it comes back in 1 hour 30 minutes. If the speed of the stream be 3 kmph, what is the speed of the boat in still water?  
**A.12 kmph B.13 kmph C.14 kmph D.15 kmph**

**39.**A boatman goes 2 km against the current of the stream in 1 hour and goes 1 km along the current in 10 minutes. How long will it take to go 5 km in stationary water?  
**A.40 minutes B.1 hour C.1 hr 15 min D.1 hr 30 min**

**40.**Speed of a boat in standing water is 9 kmph and the speed of the stream is 1.5 kmph. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is:  
**A.16 hours B.18 hours C.20 hours D.24 hours**

**41.**A man takes twice as long to row a distance against the stream as to row the same distance in favour of the stream. The ratio of the speed of the boat (in still water) and the stream is:  
**A.2 : 1 B.3 : 1 C.3 : 2 D.4 : 3**

**42.**A man rows to a place 48 km distant and come back in 14 hours. He finds that he can row 4 km with the stream in the same time as 3 km against the stream. The rate of the stream is:  
**A.1 km/hr B.1.5 km/hr C.2 km/hr D.2.5 km/hr**

**PROBLEM ON TRAINS**

**43.**A train is 100 m long and is running at the speed of 30 km per hour. Find the time it will take to pass a man standing at a crossing.

**A.10 sec B.12 sec C.14 sec D.16 sec**

**44.**A train is 360 m long is running at a speed of 45 km/hour. In what time will it pass a bridge of 140 m length?

**A.20 sec B.30 sec C.40 sec D.50 sec**

**45.**Speed of a goods train is 72 km/hr. This train crosses a 250 m platform in 26 sec. Then find the length of goods train.

**A.250 m B.260 m C.270 m D.280 m**

**46.**A 300 m long train crosses a platform in 39 sec while it crosses a signal pole in 18 sec. What is the length of the platform?

**A.310 m B.335 m C.345 m D.350 m**

**47.**A train speeds past a pole in 15 sec and a platform 100 m long in 25 sec. What is length of the train?

**A.140 m B.145 m C.150 m D.155 m**

**48.**Two trains of equal length are running on parallel lines in the same direction at 46 km/hr and 36 km/hr. The faster train passes the slower train in 36 sec. The length of each train is?

**A.40 m B.45 m C.50 m D.55 m**

**49.**Two trains 140 m and 160 m long run at the speed of 60 km/hr and 40 km/hr respectively in opposite directions on parallel tracks. The time which they take to cross each other, is

**A.9.8 sec B.10.8 sec C.11.8 sec D.12.8 sec**

**50.**Two trains are running at 40 km/hr and 20 km/hr respectively in the same direction. Fast train completely passes a man sitting in the slower train in 5 sec. What is the length of the fast train?

**A.27 7/9 B.28 7/9 C.29 7/9 D.30 7/9**