



# MATHS

## BOOKS - S CHAND IIT JEE

### FOUNDATION

#### DISTANCE TIME AND SPEED

#### Example

1. A persons crosses a 600 m long street in 5 minutes. What is his speed in km per hour?



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2. A truck covers a distance of 550 metres in 1 minute whereas a bus covers a distance of 33 km in 45 minutes. What is the ratio of their speeds.



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3. A man walks at a speed of 4 km/hr and runs at a speed of 8 km/hr. How much time will the

man require to cover a distance of 24 km if he completes half of his journey walking and half running?



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4. In a 800 metre race,  $A$  defeated  $B$  by 15 seconds. If  $A$ 's speed was 8 km/hr, the speed

of  $B$  was  $\frac{16}{27} \text{ km/hr}$  (b)  $\frac{27}{16} \text{ km/hr}$  (c)

$7\frac{17}{25} \text{ km/hr}$  (d)  $8\frac{17}{25} \text{ km/hr}$



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5. A scooterist completes a certain journey in 10 hours. He covers half the distance at 30 km/hr and the rest at 70 km/hr . What is the total distance of the journey?



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6. A persons pedals from his house to his office at a speed of  $x_1$  km/hour and returns by the same route at a speed of  $x_2$  km/hour. What is his average speed?



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7. A man can reach a certain place in 30 hours. If he reduces his speed by  $\frac{1}{15}th$  he goes 10 km less in that time. Find his speed.  $4 \text{ km/hr}$   
b.  $5 \text{ km/hr}$  c.  $5\frac{1}{2} \text{ km/hr}$  d.  $6 \text{ km/hr}$



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8. A tractor is moving with a speed of 20 km/hour,  $x$  km ahead of a truck moving with a speed of 35 km/hour. If it takes 20 minutes for

a truck to overtake the tractor , then what is  $x$  equal to?



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9. A train running between two stations A and B arrives at its destinations 10 minutes late when its speed is 50 km/hour and 50 minutes late when its speed is 30 km/hr. How far is station A from B?



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**10.** A person drives his car for 3 hours at a speed of 40 km/hr and for 4.5 hour at a speed of 60 km/hr. At the end of it he find that he has covered  $\frac{3}{5}$  of the total distance. What is the uniform speed with which he should further drive to cover the remaining distance in 4 hours?



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**11.** Walking at three - fourth of his usual speed , a man covers a certain distance in 2 hour

more than the time he takes to cover the distance at his usual speed. What is the time taken by him to cover the same distance with his usual speed?



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**12.** A student rides on a bicycle at  $8 \text{ km/hr}$  and reaches his school 2.5 minutes late. The next day he increases his speed to  $10 \text{ km/hr}$  and reaches the school 5 minutes early. How far is the school from his house?





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**13.** A train 156 m long passes a telegraph pole in 13 seconds find the speed of the train in km/hr.



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**14.** A train takes 9 seconds to cross a pole. If the speed of the train is 60 Km/h, the length of the train is



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**15.** A goods train runs at a speed of 72 km/hr and across a 250 m long platform in 26 seconds . What is the length of the goods train?



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**16.** A 264 m long train moves past an electric pole in 20 seconds. What is the speed of the train in km/hr?



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17. The length of a train and that of a platform are equal . If with the speed of 54 km/hr , the train crosses the platform in  $1\frac{1}{2}$  minutes , then what is the length of the platform in metres?



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Question Bank 14 A

1. A car moves with a speed of 80 km/hr . What is the speed of the car in metres per second?

A.  $22\frac{2}{9}m / \text{sec}$

B.  $8\frac{m}{\text{sec}}$

C.  $20\frac{1}{9}\frac{m}{\text{sec}}$

D.  $8\frac{2}{3}\frac{m}{\text{sec}}$

**Answer: A**



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2. A man covers first half of its journey at 12 km/hr and the rest at 4 km/hr. His average speed is

A. 3 km/hr

B. 6 km/hr.

C. 4.5 km/hr

D. 9 km/hr

**Answer: B**



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3. The speeds of A and B are in the ratio 3:4. A takes 20 minutes more than B to reach a destination. In what time does A reach the destination.  $1\frac{1}{3}$  hours b.  $1\frac{2}{3}$  hours c. 2 hours d.  $2\frac{2}{3}$  hours

A.  $1\frac{1}{3}$  hours

B. 2 hours

C.  $1\frac{2}{3}$  hours

D.  $2\frac{2}{3}$  hours

**Answer: A**



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4. Two trains approach each other at 30 km/hr and 27 km/hr from two places 342 km apart. After how many hours do they meet?

A. 5 hours

B. 6 hours

C.  $1\frac{2}{3}$  hours

D.  $2\frac{2}{3}$  hours

**Answer: B**



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5. A runs 100 metres in 11 seconds and B runs 100 metres in 12 seconds. The head start which must be given to B for race to be completed in 11 seconds.

A. 8 m

B.  $8\frac{1}{4}$  m

C.  $8\frac{1}{3}$  m

D.  $8\frac{1}{2}$  m



**Answer: C**



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6. A man can walk uphill at the rate of  $2\frac{1}{2}$  km/hr and downhill at the rate of  $3\frac{1}{4}$  km/hr. If the total time required to walk a certain distance up the hill and return to the starting point was 4 hr 36 min, then what was the distance walked up the hill by the man?  $4\text{ km}$   
b.  $4\frac{1}{2}\text{ km}$  c.  $5\frac{1}{2}\text{ km}$  d.  $6\frac{1}{2}\text{ km}$

A.  $6\frac{1}{2}$  km

B.  $5\frac{1}{2}$  km

C.  $4\frac{1}{2}$  km

D. 4 km

**Answer: A**



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7. A person wishes to reach his destination 90 km away in three hours but for the first half of the journey his speed was 20 km/hr. His

average speed for the rest of the journey  
should be

A. 40 km/hour

B. 0.75 km/min

C. 1 km/min

D. 65 km/hour

**Answer: A**



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8. A car travels a distance of 45 km at a speed of 15 km/hr. It covers the next 50 km of its journey at the speed of 25 km/hr and the last 25 km of its journey at the speed of 15 km/hr.

What is the average speed of the car?

A. 40 km/hr

B. 24 km/hr

C. 15 km/hr

D. 18 km/hr

**Answer: D**



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9. A car travels a distance of 45 km at a speed of 15 km/hr. It covers the next 50 km of its journey at the speed of 25 km/hr and the last 25 km of its journey at the speed of 15 km/hr.

What is the average speed of the car?

A. 50 km

B. 40 km

C. 30 km

D. 60 km

**Answer: C**



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**10.** A car travelling with of  $\frac{5}{7}$  its usual speed covers 42 km in 1 hour 40 min 48 sec. What is the usual speed of the car?

A.  $17\frac{6}{7}$  km/hr

B.  $25\text{ km} / \text{hr}$

C.  $30\text{km} / \text{hr}$

D.  $35\text{km} / \text{hr}$

**Answer: D**



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**11.** A car can finish a certain journey in 10 hours at the speed of  $48 \text{ km//hour}$ . By how much should its speed be increased so that it may take only 8 hours to cover the same distance ?

A. 6 km/hour

B. 7.5 km/hour

C. 12 km/hour

D. 15 km/hr

**Answer: C**



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**12.** Excluding stoppages, the speed of a train is 45 km/hr and including stoppages it is 36



km/hr. For how many minutes does the train stop per hour?

A. 10

B. 12

C. 15

D. 18

**Answer: B**



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**13.** A locomotive driver travelling at 72 km/hr finds a signal 210 metres ahead of him indicating that he should stop. He instantly applies brakes to stop the train. The train retards uniformly and stops 10 metres before the signal post. What time did he take to stop the train?

A. 5 seconds

B. 10 seconds

C. 15 seconds

D. 20 seconds

**Answer: B**



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**14.** A runs twice as fast as B and B runs thrice as fast as C. The distance covered by C in 72 minutes, will be covered by A in  $12 m \in \text{utes}$

b.  $16 m \in \text{utes}$       c.  $18 m \in \text{utes}$       d.

$24 m \in \text{utes}$

A. 18 min

B. 24 min

C. 16 min

D. 12 min

**Answer: D**



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**15.** A car runs at a speed of 40 km/hr when not serviced and runs at 60 km/hr when serviced. After servicing the car covers a certain distance in 5 hours. How much time will the

car take to cover the same distance when not serviced?

A. 8 hours

B. 7.5 hour

C. 6 hours

D. 7 hours

**Answer: B**



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**16.** A train starts from Agra to Mathura at a speed of 60 km/hr and reaches there in 45 min. If on return its speed is reduced by 10%, how long will it take to reach Agra from Mathura?

A. 1 hr

B. 50 min

C. 1 hr 20 min

D. 49 min

**Answer: B**



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17. Samir drove at the speed of 45 km/hr from home to a resort. Returning over the same route he got stuck in traffic and took an hour longer. Also he could drive only at the speed of 40 km/hr. How many kilometres did he drive each way?

A. 250 km

B. 360 km

C. 310 km

D. 275 km

**Answer: B**



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**18.** A certain distance is covered at a certain speed. If half of the distance is covered in double time, the ratio of the two speeds is

A. 4 : 1

B. 1 : 4



C. 2:1

D. 1:2

**Answer: A**



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**19.** Paschini Express left Delhi for Mumbai at 14.30 hrs travelling at a speed of 60 kmph and August Kranti Express left Delhi for Mumbai on the same day at 16.30 hrs travelling at a speed of 80 kmph. How far away from Delhi

will the two trains meet (excluding stoppages)? 120 *km* b. 360 *km* c. 480 *km* d. 500 *km*

A. 120 km

B. 360 km

C. 480 km

D. 500 km

**Answer: C**



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20. A and B start simultaneously from a certain point in North and South directions on motorcycles. The speed of A is 80 km/hr and that of B is 65 km/hr. What is the distance between A and B after 12 minutes?

A. 14.5 km

B.  $29\text{km}$

C.  $36.2\text{km}$

D.  $39\text{km}$

**Answer: B**



21. The distance between Bandel and Asansol is 100 km. A leaves Bandel for Asansol and walks at the rate of 3 km/hr. 3 hrs later, B starts from Asansol for Bandel and walks at 3.5 km/hr. Find the distance from Asansol where they would meet?

A. 51 km

B. 49 km

C. 53 km

D. 52 km

**Answer: B**



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**22.** A star is  $8.1 \times 10^{13}$  km away from the earth. Suppose light travels at the speed of  $3.0 \times 10^5$  km per second. How long will it take the light from the star to reach the earth?

$7.5 \times 10^3$  hours    b.     $7.5 \times 10^4$  hours    c.

$2.7 \times 10^{10}$  seconds    d.  $2.7 \times 10^{11}$  seconds

A.  $7.5 \times 10^3$  hrs.

B.  $7.5 \times 10^4$  hrs.

C.  $2.7 \times 10^{10}$  km

D.  $2.7 \times 10^{11}$  sec.

**Answer: B**



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**23.** A takes 2 hours more than B to walk  $d$  km, but /it A doubles his speed, then he can make it in hour less than B. How much time does B

require for walking  $d$  km?  $\frac{d}{2}$  hours b.

3 hours c. 4 hours d.  $\frac{2d}{3}$  hours

A.  $\frac{d}{2}$  hours

B. 3 hours

C. 4 hours

D.  $\frac{2d}{3}$  hours

**Answer: C**



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24. A boy is running at a speed of  $p$  kmph to cover a distance of 1 km. but ,m due to the slippery ground, his speed is reduced by  $q$  kmph ( $p > q$ ) . if he takes  $r$  hours to cover the distance then  $\frac{1}{r} = p - q$  b.  $r = p - q$  c.  $\frac{1}{r} = p + q$  d.  $r = p + q$

A.  $\frac{1}{r} = (p - q)$

B.  $r = (p - q)$

C.  $\frac{1}{r} = (p + q)$

D.  $r = (p + q)$



**Answer: A**



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**25.** A walks at a uniform rate of 4 km an hour; and 4 hours after his start, B bicycles after him at the uniform rate of 10 km an hour. How far from the starting point will B catch A?

16. *7 km* b. 18. *6 km* c. 21. *5 km* d. 26. *7 km*

A. *16.7km*

B. *18.6km*

C.  $21.5\text{km}$

D.  $26.7\text{km}$

**Answer: D**



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**26.** An express train travelled at a average speed of 100 kmph stopping for 3 minutes after 75 km. a local train travelled at a speed of 50 kmph, stopping for 1 minute after every 25 km. if the trains began travelling at the same

time, how many kilometres did the locals train travelling the tie it took the express train to travel 600 km? 287.5 km b. 307.5 km c. 325 km d. 396 km

- A. 6 hrs 21 min
- B. 6 hrs 24 min
- C. 6 hrs 27 min
- D. 6 hrs 30 min

**Answer: A**



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27. Two trains start from stations A and B and travel towards each other at a speed of 50 kmph and 60 kmph respectively. At the time of their meeting, the second train had travelled 120 km more than the first. The distance between A and B is *600 km* b. *1440 km* c. *1320 km* d. *1660 km*

A. 990 km

B. 1200 km

C. 1320 km

D. 1440 km

**Answer: C**



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**28.** In a kilometre race,  $A$  beats  $B$  by 30 seconds and  $B$  beats  $C$  by 15 seconds. If  $A$  beats  $C$  by 180 m, the time taken by  $A$  to run 1 kilometre, is (a) 200 sec (b) 205 sec (c) 210 sec (d) 250 sec

A. 250 seconds

B. 205 seconds

C. 200 seconds

D. 210 seconds

**Answer: B**



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**29.** A man takes 6 hours 30 min in going by a cycle and coming back by scooter. He would have lost 2 hours 10 min by going on cycle

both ways. How long would it take him to go  
by scooter both ways?

A. 2 hrs

B.  $4\frac{1}{3}$  hrs

C.  $3\frac{1}{3}$  hrs

D.  $5\frac{1}{3}$  hrs

**Answer: B**



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30. A student rides on a bicycle at 8 km/hr and reaches his school 2.5 minutes late. The next day he increases the speed to 10 km/hr and reaches school 5 minutes early. How far is the school from the house?

A. 6 km

B. 4 km

C. 5 km

D. 4.5 km

**Answer: C**





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## Question Bank 14 B

1. A 180 - metre long train crosses a man standing on the platform in 6 seconds. What is the speed of the train?

A. 90 km/hr

B. 108 km/hr

C. 120 km/hr

D. 88 km/hr

**Answer: B**



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2. A train running at a speed of 84 km/hour crosses an electric pole in 9 seconds. What is the length of the train in metres?

A. 126

B. 630

C. 210

D. 70

**Answer: C**



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**3.** A train 110 m long takes three seconds to pass a standing man. How long is the platform if the train passes through it in 15 seconds moving with the same speed?

A. 440 m

B. 400 m

C. 550 m

D. 450 m

**Answer: C**



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4. A train speeding at 120 km/hr crosses an electric pole in 9 seconds and a platform in 24 seconds. What is the length of the platform?

A. 500 m

B. 800 m

C. 300 m

D. 1100 m

**Answer: A**



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5. A train passes a pole in 15 seconds and a platform  $100m$  long in 25 seconds. Then find the length of the train.

A. 125 m

B. 135 m

C. 150 m

D. 175 m

**Answer: C**



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**6.** A train passes a platform 90 m long in 30 seconds and a man standing on the platform in 15 second. The speed of the train is a.

12.  $4 \text{ km/hr}$  b. 14.  $6 \text{ km/hr}$  c. 18.  $4 \text{ km/hr}$

d. 21.  $6 \text{ km/hr}$

A.  $12.4 \text{ km/hr}$

B.  $14.6 \text{ km/hr}$

C.  $18.4 \text{ km/hr}$

D.  $21.6 \text{ km/hr}$

**Answer: D**



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7. Sabarmati express 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 Sabarmati express is :

A. 70

B. 80

C. 90

D. 105

**Answer: C**



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8. A train, 150 m long, takes 30 seconds to cross a bridge 500 m long. How much time will the train, take to cross a platform 370 m long?

18 sec b. 24 sec c. 30 sec d. 36 sec

A. 36 sec

B. 30 sec

C. 24 sec

D. 18 sec

**Answer: C**



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9. A 120 metre long train is running at a speed of 90 k/her. It will cross a railway platform 230 m long in  $4\frac{4}{5}$  seconds b. 7 seconds c.  $9\frac{1}{5}$  seconds d. 14 seconds

A.  $4\frac{4}{5}$  seconds

B.  $9\frac{1}{5}$  seconds

C. 7 seconds

D. 14 seconds

**Answer: D**



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**10.** A passenger train runs at the rate of 80 kmph. It starts from the station, 6 hours after a goods train leaves the station. The passenger train overtakes the goods train after 4 hours. The speed of goods train is

32 *km / hr*   b. 45*km / hr*   c. 64*km / hr*   d.

50 *km / hr*

A. 48 km/hr

B. 60 km/hr

C. 32 km/hr

D. 80 km/hr

**Answer: C**



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11. A train X starts from a place at a speed of 50 km/hr. After one hour, another train Y starts from the same place at a speed of 70 km/hr. After how much time will Y cross X?

A. 3 hrs

B.  $2\frac{3}{4}$  hrs

C.  $3\frac{1}{2}$  hrs

D.  $2\frac{1}{4}$  hrs

**Answer: C**



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12. A man in a train notices that he can count 21 telephone posts in one minute. If they are known to be 50 metres apart, then at what speed is the train travelling?  $55 \text{ km/hr}$  b.  $60 \text{ km/hr}$  c.  $57 \text{ km/hr}$  d.  $63 \text{ km/hr}$

A. 57 km/hr

B. 60 km/hr

C. 63 km/hr.

D. 55 km/hr

**Answer: B**



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**13.** The distance of the sun from the earth is one hundred forty million four hundred thousand kilometers and light travels from the former to the latter in 7 minutes and fifty eight seconds. The velocity of light per second is :

A.  $3 \times 10^5 km / sec$

B.  $0.3 \times 10^5 \text{ km / sec}$

C.  $30 \times 10^5 \text{ km/sec}$

D. None of these

**Answer: A**



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**14.** A man covered a distance of 2000 km in 18 hours partly by bus at 72 km/hr and partly by train at 160 km/hr. The distance covered by bus is



A. 860 km

B. 640 km

C. 1280 km

D. 720 km

**Answer: D**



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**15.** A man takes 4 h 20 minutes in walking to a certain place and riding back. If he walk on

both sides he loses 1 h. The time he would take by riding both ways is :

A. 3 h 20 min

B. 2 h 20 min

C. 4 h 20 min

D. 1 h 20 min

**Answer: A**



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**16.** A car covers 4 successive 3 km stretches at speeds of 10 km/hr, 20 km/hr, 30 km/hr and 60 km/hr respectively. The average speed of the car for the entire journey is

A. 15 km/hr

B. 35 km/hr

C. 20 km/hr

D. 25 km/hr

**Answer: C**



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17. Moving at  $\frac{5}{6}$  of its usual speed, a train is 10 minutes late. Its usual time to cover the journey is:

A. 40 min

B. 50 min

C. 35 min

D. 55 min

**Answer: B**





**18.** If a train runs at 40 kmph, it reaches its destination late by 11 minutes but if it runs at 50 kmph, it is late by 5 minutes only. The correct time for the train to complete its journey is  $13\text{ m} \in$  b.  $15\text{ m} \in$  c.  $19\text{ m} \in$  d.  $21\text{ m} \in$

A. 13 min

B. 15 min

C. 19 min

D. 21 min

**Answer: C**



**Watch Video Solution**

**19.** The distance between two cities A and B is 330 km . A train starts from A at 8 a.m. travels towards B at 60km/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. 10 a.m.

B. 10.30 a.m.

C. 11 a.m.

D. 11.30 a.m.

**Answer: C**



**Watch Video Solution**

**20.** A train passes a station platform in 36 second, a man standing on the platform in 20 seconds. it speed of the train is 54 km / hr,

what is the of the platform? 225 m b. 240 m c.

230 m d. 235 m

A. 120 m

B. 240 m

C. 300 m

D. None of these

**Answer: B**



**Watch Video Solution**



21. A motor car starts with a speed of 70 km/hr with its speed increasing every two hours by 10 km/hr. In how many hours will it cover 345 kms?

A.  $2\frac{1}{4}h$

B.  $4\frac{1}{2}h$

C.  $4h5 \text{ min}$

D. Can not be determined

**Answer: B**



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22. A person sets to cover a distance of 12 km in 45 minutes. If he covers  $\frac{3}{4}$  of the distance in  $\frac{2}{3}$ rd time, what should be his speed to cover the remaining distance in the remaining time?

A. 16 km/hr

B. 8 km /hr

C. 12 km/hr

D. 14 km/hr

**Answer: C**



**View Text Solution**

## Self Assessment Sheet 14

1. The distance of the sun from the earth is one hundred forty million four hundred thousand kilometers and light travels from the former to the latter in 7 minutes and fifty eight seconds. The velocity of light per second is :

A.  $3 \times 10^5$  km/sec

B.  $0.3 \times 10^5$  km / sec

C.  $30 \times 10^5$  km/sec

D. None of these

**Answer: A**



**Watch Video Solution**

2. A man covered a distance of 2000 km in 18 hours partly by bus at 72 km/hr and partly by

train at 160 km/hr. The distance covered by bus is

A. 860 km

B. 640 km

C. 1280 km

D. 720 km

**Answer: D**



**Watch Video Solution**

3. A man takes 4 h 20 minutes in walking to a certain place and riding back. If he walk on both sides he loses 1 h. The time he would take by riding both ways is :

A. 3 h 20 min

B. 2 h 20 min

C. 4 h 20 min

D. 1 h 20 min

**Answer: A**



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4. A car covers 4 successive 3 km stretches at speeds of 10 km/hr, 20 km/hr, 30 km/hr and 60 km/hr respectively. The average speed of the car for the entire journey is

- A. 15 km/hr
- B. 35 km/hr
- C. 20 km/hr
- D. 25 km/hr

**Answer: C**



**Watch Video Solution**

5. Moving at  $\frac{5}{6}$  of its usual speed, a train is 10 minutes "late. Its usual time to cover the journey is:

A. 40 min

B. 50 min

C. 35 min

D. 55 min



**Answer: B**



**Watch Video Solution**

6. If a train runs at 40 kmph, it reaches its destination late by 11 minutes but if it runs at 50 kmph, it is late by 5 minutes only. The correct time for the train to complete its journey is 13 m ∈ b. 15 m ∈ c. 19 m ∈ d. 21 m ∈

A. 13 min

B. 15 min

C. 19 min

D. 21 min

**Answer: C**



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7. The distance between two cities A and B is 330 km . A train starts from A at 8 a.m. travels towards B at 60km/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. 10 a.m.

B. 10.30 a.m.

C. 11 .a.m.

D. 11.30 a.m.

**Answer: C**



**Watch Video Solution**

8. A train passes a station platform in 36 second, a man standing on the platform in 20 seconds. it speed of the train is 54 km / hr, what is the of the platform? 225 m b. 240 m c. 230 m d. 235 m

A. 120 m

B. 240 m

C. 300 m

D. None of these

**Answer: B**



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9. A motor car starts with a speed of 70 km/hr with its speed increasing every two hours by 10 km/hr. In how many hours will it cover 345 kms?

A.  $2\frac{1}{4}h$

B.  $4\frac{1}{2}h$

C.  $4h5\text{ min}$

D. None of these

**Answer: B**



**Watch Video Solution**

**10.** A person sets to cover a distance of 12 km in 45 minutes. If he covers  $\frac{3}{4}$ th of the distance in  $\frac{2}{3}$ rd time. What should be his speed to cover the remaining distance in the remaining time?

A. 16 km/hr

B. 8 km /hr

C. 12 km/hr

D. 14 km/hr

**Answer: C**



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