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India's Number 1 Education App

## MATHS

## BOOKS - IBPS \& SBI PREVIOUS YEAR

## PAPER

## TIME , SPEED \& DISTANCE (BOAT \& <br> STREAM)

Question

1. The speed of a boat when travelling downstream is 32 kmph whereas when travelling upstream it is 28 kmph . What is the speed of the boat in still water?
A. 27 Kmph
B. 29 Kmph
C. 31 Kmph
D. None of these

## Answer: D

2. Yesterday Priti typed an essay of 5000 words
at the speed of 60 words per minute. Today
she typed the same essay faster and her speed was $15 \%$ more than yesterday. What is the approximate difference in the time she took to
type yesterday and the time she took to type today?
A. 20 minutes
B. 30 minutes

## C. 10 minutes

## D. 40 minutes

## Answer: C

## D Watch Video Solution

3. The average speed of a train is 3 times the average speed of a car. The car covers a distance of 520 kms in 8 hours. How much distance will the train cover in 13 hours ?
A. 2553 km
B. 2585 km
C. 2355 km
D. 2535

## Answer: D

## D Watch Video Solution

4. Yesterday Shweta completed 300 units of work at the rate of 15 units per minute. Today
she completed the same units of work but her
speed was $40 \%$ faster than yesterday. What is
the approximate difference in the time she took to complete the work yesterday and the time she took today?
A. 16 minutes
B. 26 minutes
C. 46 minutes
D. 6 minutes

## Answer: D

## 5. A truck covers a certain distance in 12 hours

at the speed of $70 \mathrm{~km} / \mathrm{hr}$. What is the average
speed of a car which travels a distance of 120 km more than the truck in the same time ?
A. $56 \mathrm{~km} / \mathrm{hr}$.
B. $75 \mathrm{~km} / \mathrm{hr}$.
C. $82 \mathrm{~km} / \mathrm{hr}$.
D. None of these
6. A 420-metre long train crosses a pole in 70 seconds. What is the speed of the train?
A. $5 \mathrm{~m} / \mathrm{s}$
B. $7 \mathrm{~m} / \mathrm{s}$
C. $4.5 \mathrm{~m} / \mathrm{s}$
D. None of these

Answer: D
7. Neeraj , Manoj and Geeta start running around a circular stadium and complete one round in 10 seconds, 6 seconds and 14 seconds respectively. In how much time will they meet again at the starting point ?
A. 3 minutes 30 seconds
B. 2 minutes 28 seconds
C. 4 minutes 45 seconds
D. 1 minute 40 seconds

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8. Meghna travelled 3.36 km in four weeks by
walking an equal distance each day . How many meters does she walk each day?
A. 100 m
B. 60 m
C. 140 m
D. 120 m

## Answer: D

## D Watch Video Solution

9. A truck covers a distance of 256 km at the
speed of $32 \mathrm{~km} / \mathrm{hr}$. What is the average speed of a car which travels a distance of 160 km more than the truck in the same time?
A. $46 \mathrm{~km} / h^{-1}$
B. $52 \mathrm{~km} / h^{-1}$
C. $49 \mathrm{~km} / h^{-1}$

## D. $64 \mathrm{~km} / h^{-1}$

## Answer: B

## D Watch Video Solution

10. A truck covers a distance of 330 km at the
speed of $30 \mathrm{~km} / \mathrm{hr}$. What is the average speed of a car which travels a distance of 110 km more than the truck in the same time ?
A. $42 \mathrm{~km} / \mathrm{hr}$
B. $48 \mathrm{~km} / \mathrm{hr}$
C. $39 \mathrm{~km} / \mathrm{hr}$
D. None of these

## Answer: D

## D Watch Video Solution

11. Gulshan , Shakti and Om start running around a circular stadium and complete one round in $14 \mathrm{sec}, 8 \mathrm{sec}$ and 15 sec respectively.

In how much time will they meet again at the starting point?
A. 23 min
B. 14 min
C. 13 min
D. 21 min

Answer: B
( Watch Video Solution
12. Anu walks 2.31 km in three weeks by walking
an equal distance each day. How many metres
does she walk each day?
A. 110 m
B. 90 m
C. 140 m
D. 120 m

Answer: A

D Watch Video Solution
13. A man riding a bicycle completes one lap of
a square field along its perimeter at the speed
of $43.2 \mathrm{~km} / \mathrm{hr}$ in 1 minute 20 seconds. What is
the area of the field?
A. 52900 sq. m
B. 57600 sq m
C. 48400 sq m
D. Cannot be determined

Answer: B
14. A 360-metre-long train crosses a platform
in 120 seconds. What is the speed of the train
?
A. $3 \mathrm{~m} / \mathrm{s}$
B. $5 \mathrm{~m} / \mathrm{s}$
C. $4.5 \mathrm{~m} / \mathrm{s}$
D. Cannot be determined

Answer: D
15. A truckcovers a distance of 640 km in 10 hr .

A car covers the same distance in 8 hr . What is
the ratio of the speed of the truck to that of
the car ?
A. 3:4
B. 1:2
C. 5:6
D. None of these

## Answer: D

## D Watch Video Solution

16. A man riding a bicycle completes one lap of
a circular field along its circumference at the
speed of $14.4 \mathrm{~km} / \mathrm{hr}$ in 1 minute 28 seconds.

What is the area of the field ?
A. 7958 sq mt
B. 9856 sq mt
C. 8842 sq mt

## D. Cannot be determined

## Answer: B

## D Watch Video Solution

17. Haris , Dilip and Asha start running around a circular stadium and complete one round in

27 seconds , 9 seconds and 36 seconds respectively. In how many time will they meet again at the starting point ?
A. 1 min 48 sec
B. $2 \min 36 \mathrm{sec}$
C. 3 min 11 sec
D. $2 \min 25 \mathrm{sec}$

Answer: A

## D Watch Video Solution

18. A truck covers a distance of 360 km in 8
hours. A car covers the same distance in 6
hours. What is the respective ratio between the speed of the truck and the car?
A. $3: 5$
B. 3:4
C. 1:2
D. $4: 5$

Answer: B

## - Watch Video Solution

19. Parag walks 226 metres everyday. How many kilometres will he walk in five weeks ?
A. 6.57
B. 7.91
C. 8.23
D. 9.41

Answer: B

## D Watch Video Solution

20. A 240-metre long train crosses a platform
twice its length in 2 minutes. What is the
speed of the train?
A. $8 \mathrm{~m} / \mathrm{s}$
B. $4 \mathrm{~m} / \mathrm{s}$
C. $6 \mathrm{~m} / \mathrm{s}$
D. Cannot be determined

## Answer: C

D Watch Video Solution
21. A man riding a bicycle , completed one lap
of a circular field along its circumference at
the speed of $79.2 \mathrm{~km} / \mathrm{hr}$ in 2 minutes 40 seconds. What is the area of the field?
A. 985600 sq metre
B. 848500 sq metre
C. 795600 sq metre
D. Cannot be determined

Answer: A
( Watch Video Solution
22. Riya , Manasvi and Pintu start running around a circular stadium and complete one
round in 24 seconds, 6 seconds and 14
seconds respectively. In how much time will
they meet again at the starting point ?
A. 1 min 32 seconds
B. 4 min 8 seconds
C. 3 min 25 seconds
D. 2 min 48 seconds
23. A wheel of a motor bike has radius 35 cm .

How many revolutions per minute must the wheel make so that the speed of the bike is 33 $\mathrm{km} / \mathrm{hr}$ ?
A. 300
B. 250
C. 200
D. 220

Answer: B

## - Watch Video Solution

24. Amit and Sujit together can complete an
assignment of data entry in five days. Sujit's
speed is $80 \%$ of Amit's speed and the total key depressions in the assignment are 5,76,000.
what is Amit's speed in key depressions per hour if they work for 8 hours a day?
A. 4800
B. 6400
C. 8000
D. 7200

## Answer: C

## D Watch Video Solution

25. A car covers a certain distance in 3 hours at
the speed of $124 \mathrm{kms} / \mathrm{hr}$. What is the average
speed of a truck which travels a distance of
120 kms less than the car in the same time ?
A. $88 \mathrm{kms} / \mathrm{hr}$.
B. $84 \mathrm{kms} / \mathrm{hr}$.
C. $78 \mathrm{kms} / \mathrm{hr}$.
D. $73 \mathrm{kms} / \mathrm{hr}$.

Answer: B

## D Watch Video Solution

26. A truck covers a distance of 368 km at a certain speed in 8 hours. How much time would a car take at an average speed which is
$18 \mathrm{~km} / \mathrm{hr}$ more than of the speed of the truck to cover a distance which is 16 km more than that travelled by the truck?
A. 7 hrs
B. 5 hrs
C. 6 hrs
D. 8 hrs

Answer: C

D Watch Video Solution
27. A 210 m long train takes 6 s to cross a man
running at $9 \mathrm{~km} / \mathrm{h}$ in a direction opposite to
that of the train. What is the speed of the train ? (in km/h)
A. 127
B. 121
C. 117
D. 108

Answer: C

D Watch Video Solution
28. An aeroplane flies with an average speed of
$756 \mathrm{~km} / \mathrm{h}$. A helicopter takes 48 h to cover twice the distance covered by aeroplane in 9 h
. How much distance will the helicopter cover
in 18 h ? (Assuming that flights are non-stop
and moving with uniform speed)
A. 5010 km
B. 4875 km
C. 5760 km
D. 5103 km

## Answer: D

## D Watch Video Solution

29. Three persons start walking together and
their steps measure $40 \mathrm{~cm}, 42 \mathrm{~cm}$ and 45 cm
respectively. What is the minimum distance each should walk so that each can cover the same distance in complete steps ?
A. 25 m 20 cm
B. 50 m 40 cm
C. 75 m 60 cm

## D. 100 m 80 cm

## Answer: A

## D View Text Solution

30. Wheels of diameters 7 cm and 14 cm start rolling simultaneously from $X$ and $Y$, which are

1980 cm apart , towards each other in opposite directions. Both of them make the same number of revolutions per second. If
both of them meet after 10 seconds, the speed of the smaller wheel is :
A. $22 \mathrm{~cm} / \mathrm{sec}$
B. $44 \mathrm{~cm} / \mathrm{sec}$
C. $66 \mathrm{~cm} / \mathrm{sec}$
D. $132 \mathrm{~cm} / \mathrm{sec}$

Answer: C

- Watch Video Solution

31. An aeroplane takes off 30 minutes later
than the scheduled time and in order to reach
its destination 1500 km away in time, it has to
increse its speed by $250 \mathrm{~km} / \mathrm{h}$ from its usual
speed. Find its usual speed.
A. $1000 \mathrm{~km} / \mathrm{h}$
B. $750 \mathrm{~km} / \mathrm{h}$
C. $850 \mathrm{~km} / \mathrm{h}$
D. $650 \mathrm{~km} / \mathrm{h}$

Answer: B
32. A farmer travelled a distance of 61 km in 9
hrs . He travelled partly on foot at the rate of 4
$\mathrm{km} / \mathrm{hr}$ and partly on bicycle at the rate of 9 $\mathrm{km} / \mathrm{hr}$. The distance travelled on foot is
A. 17 km
B. 16 km
C. 15 km
D. 14 km

Answer: B

## - Watch Video Solution

33. Walking at the rate of 4 kmph a man covers
certain distance in 2 hrs 45 min . Running at a
speed of 16.5 kmph the man will cover the same distance in how many minutes?
A. 35 min .
B. 40 min .
C. 45 min .

## D. 50 min .

Answer: B

## D View Text Solution

34. A train runs at an average speed of 75
$\mathrm{km} / \mathrm{hr}$. If the distance to be covered is 1050

Km . How long will the train take to cover it ?
A. 13 hrs
B. 12 hrs
C. 14 hrs
D. 15 hrs

## Answer: C

## D Watch Video Solution

35. A train leaves station $X$ at 5 a.m. and reaches station $Y$ at 9 a.m. Another train leaves
station $Y$ at 7 a.m. and reaches station $X$ at 10:30 a.m. At what time do the two trains cross each other?
A. 7:36 am
B. 7:56 am
C. $8: 36 \mathrm{am}$
D. 8:56 am

## Answer: B

## D Watch Video Solution

36. 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 water current respectively?
A. 2: 1
B. $3: 2$
C. $8: 3$
D. Cannot be determined

Answer: C

D Watch Video Solution
37. A car travels a distance of 560 km in 9.5
hours partly at a speed of $40 \mathrm{~km} \mathrm{~h} h^{-1}$ and partly at $160 \mathrm{kmh}^{-1}$. What is the distance it travel at the speed of $160 \mathrm{~km} \mathrm{~h}^{-1}$ ?
A. 120 km
B. 240 km
C. 320 km
D. 360 km

Answer: B

- Watch Video Solution

38. A 320 metre long train crosses a pole in 16 seconds. It stops five times of duration 18 minutes each . What time will it take in covering a distance of 576 km ?
A. 9 hours
B. $9 \frac{1}{4}$ hours
C. $9 \frac{1}{2}$ hours
D. $8 \frac{1}{2}$ hours

## - Watch Video Solution

39. Three wheels can completed respectively $60,36,24$ revolutions per minute . There is a red spot on each wheel that touches the ground at time zero . After how much time , all these spots will simultaneously touch the ground again ?
A. 5/2 seconds
B. $5 / 3$ seconds
C. 5 seconds

## D. 7.5 seconds

## Answer: C

## D Watch Video Solution

40. A train after travelling 150 km meets with an accident and proceeds $\mathrm{t} \frac{3}{5}$ of its former speed and arrives at its destination 8 hours late. Had the accident occurred 360 km further, it would have reached the destination 4 hours
late. What is the total distance travelled by the

## train?

A. 840 km
B. 960 km
C. 870 km
D. 1100 km

Answer: C
( Watch Video Solution
41. A 180-metre long train crosses another 270metre long train running in the opposite direction in 10.8 seconds. If the speed of the first train is 60 kmph ,what is the speed of the second train in kmph ?
A. 80
B. 90
C. 150
D. Can't be determined

Answer: B

## - Watch Video Solution

42. Deepa rises her bike at an average speed of $30 \mathrm{~km} / \mathrm{hr}$ and reaches her destination in 6 hrs .

Hema covers the same distance in 4 hrs . If Deepa increases her average speed by $10 \mathrm{~km} / \mathrm{hr}$ and Hema increases her average speed by 5 $\mathrm{km} / \mathrm{hr}$, what would be the difference in their time taken to reach the destination ?
A. 54 minutes
B. 1 hour

## C. 40 minutes

## D. 45 minutes

## Answer: A

## D Watch Video Solution

43. A man starts going for morning walk every
day. The distance walked by him on the first day was 2 km . Everyday he walks half of the distance walked on the previous day. What
can be the maximum total distance walked by him in his lifetime?
A. 4 km
B. 20 km
C. 8 km
D. Data inadequate

Answer: A
( Watch Video Solution
44. The distance between two cities $A$ and $B$ is

330 km . A train starts from A at 8 a.m. travels towards B at $60 \mathrm{~km} / \mathrm{hr}$.

Another train starts from B at 9 a.m. and travels towards A at $75 \mathrm{~km} / \mathrm{hr}$. At what time do they meet?
A. 10: 30 am
B. 10: 45 am
C. 11 am
D. 11: 25 am

## Answer: C

## D Watch Video Solution

45. $A, B$ and $C$ start at the same direction to
run around a circular stadium. A complete a
round in 252 seconds, $B$ in 308 seconds and $C$ in 198 seconds, all starting at the same point.

After what time they meet again at the starting point?
A. 15 minutes 15 seconds
B. 42 minutes 30 seconds
C. 42 minutes
D. 46 minutes and 12 seconds

## Answer: D

## D Watch Video Solution

46. A man rows 750 m in 775 seconds against
the stream and return in $7 \frac{1}{2}$ minutes. What is rowing speed in still water ?
A. $4.7 \mathrm{~km} / \mathrm{hr}$
B. $4 \mathrm{~km} / \mathrm{hr}$
C. $3.5 \mathrm{~km} / \mathrm{hr}$
D. $6 \mathrm{~km} / \mathrm{hr}$

Answer: A

D Watch Video Solution
47. A train travels at a speed of $40 \mathrm{~km} / \mathrm{hr}$ and another train at a speed of $20 \mathrm{~m} / \mathrm{s}$. find ratio

## train ?

A. 2:1
B. $5: 9$
C. $5: 3$
D. 9:5

Answer: B
( Watch Video Solution
48. Two trains of length 110 m and 90 m are
running on parallel lines in the same direction
with a speed of $45 \mathrm{~km} / \mathrm{h}$ and $50 \mathrm{~km} / \mathrm{h}$ respectively. In what time will they pass other ?
A. 136 s
B. 138 s
C. 142 s
D. None of these

Answer: D
49. A man rows 25 km downstream and 20 km upstream taking 5 h each time. What is the velocity of the current ?
A. $1 \mathrm{~km} / \mathrm{h}$
B. $2.5 \mathrm{~km} / \mathrm{h}$
C. $3.5 \mathrm{~km} / \mathrm{h}$
D. None of these

## - Watch Video Solution

50. A car driver travels from the plains to a hill station, which are 200 km apart at an average speed of $40 \mathrm{~km} / \mathrm{h}$. In the return trip he covers the same distance at an average speed of 20 $\mathrm{km} / \mathrm{h}$. The average speed of the car over the entire distance of 400 km is
A. $16.56 \mathrm{~km} / \mathrm{h}$
B. $17.89 \mathrm{~km} / \mathrm{h}$.
C. $26.67 \mathrm{~km} / \mathrm{h}$.

## D. $35 \mathrm{~km} / \mathrm{h}$.

## Answer: C

## D Watch Video Solution

51. The speed of a truck is $\frac{1}{3} r d$ the speed of a train . The train covers 1230 km is 5 hours .

What is the speed of the truck?
A. $85 \mathrm{~km} / \mathrm{hr}$
B. $82 \mathrm{~km} / \mathrm{hr}$

## C. $81 \mathrm{~km} / \mathrm{hr}$

D. $87 \mathrm{~km} / \mathrm{hr}$

Answer: B

## D Watch Video Solution

52. A train crossed a platform in 43 seconds .

The length of the train is 170 metres. What is
the speed of the train?
A. $233 \mathrm{~km} . / \mathrm{hr}$
B. $243 \mathrm{~km} . / \mathrm{hr}$
C. $265 \mathrm{~km} . / \mathrm{hr}$
D. Cannot be determined

## Answer: D

## D Watch Video Solution

53. Car 'A' travels at the speed of $65 \mathrm{~km} / \mathrm{hr}$ and reaches its destination in 8 hours. Car B travels at the speed of $70 \mathrm{~km} / \mathrm{hr}$ and reaches its destination in 4 hours. What is the ratio of
the distance covered by car $A$ and $B$ respectively?
A. 11: 7
B. $7: 13$
C. 13: 7
D. 7: 11

Answer: C

- Watch Video Solution

54. The speed of the boat in still water is 5
times the speed of the current. It takes 1.1
hours to row to point $B$ from point $A$ downstream . The distance between point A and point B is 13.2 km . How much distance will it cover in 312 minutes upstream ?
A. 43.2 km
B. 48 km
C. 41.6 km
D. 44.8 km

## D Watch Video Solution

55. Ashok left from place $A$ for place $B$ at 8 a.m.
and Rahul left place B for place A at 10.00 a.m.
the dis-tance between place $A$ and $B$ is 637 km .

If Ashok and Rahul are travelling at a uniform
speed of 39 kmph . and 47 kmph respectively, at
what time wilt they meet? $5: 30$ b. $4: 30 \mathrm{c}$.
$5 p m \mathrm{~d} .4 p m$
A. $5: 30 \mathrm{pm}$
B. $4: 30 \mathrm{pm}$
C. 5:00 pm
D. 4:00 pm

Answer: B

D Watch Video Solution
56. A boy goes to school from his home at a speed of $4 \mathrm{~km} / \mathrm{hr}$ and returns at a speed of
$6 \mathrm{~km} / \mathrm{hr}$. If in total he took 5 hours in going
and coming back, the distance between his house and school?
A. 8 km
B. 10 km
C. 12 km
D. 14 km

Answer: C
( Watch Video Solution
57. Without stopping the speed of the train is

120 kmph , with stopping the speed of the
train is 80 kmph . Find the stop time of the train?
A. 10 m
B. 15 m
C. 20 m
D. 25 m

Answer: C
58. A journey of 800 km is done in a total of 10
hours. If 320 km is travel by train and
remaining by bus. The same journey is done in
8 hours if 240 km is travel by train and remaining is done by bus. Find the ratio of the speed of the speed of train to bus.
A. $2: 11$
B. 3: 11
C. 1:11

## D. $4: 11$

## Answer: C

## D View Text Solution

59. A man can row 30 km upstream and 44 km
downstream in 10 hrs . Also, he can row 40 km
upstream and 55 km downstream in 13 hrs .

Find the speed of the man in still water.
A. $5 \mathrm{~km} / \mathrm{hr}$
B. $8 \mathrm{~km} / \mathrm{hr}$
C. $10 \mathrm{~km} / \mathrm{hr}$
D. $12 \mathrm{~km} / \mathrm{hr}$

Answer: B

- Watch Video Solution

60. A car covers first 10 km with $40 \mathrm{~km} / \mathrm{hr}$ next

10 km with $60 \mathrm{~km} / \mathrm{hr}$ and next 10 km in 20 $\mathrm{km} / \mathrm{hr}$. What is the average speed of the car .
A. $320 / 11$
B. $330 / 11$
C. $350 / 11$
D. $360 / 11$

## Answer: D

## D Watch Video Solution

61. A truck covers a distance of 376 km at a certain speed in 8 hours. How much time would a car take at an average speed which is

18 kmph more than that of the speed of the truck to cover a distance which is 14 km more than that travelled by the truck ?

A. 6 hours

B. 5 hours
C. 7 hours
D. 8 hours

Answer: A

D Watch Video Solution
62. Two trains are moving in opposite direction of $60 \mathrm{~km} / \mathrm{hr}$ and $90 \mathrm{~km} / \mathrm{hr}$. Their lengths are 1.10 km and 0.9 km respectively.

The time taken by the slower train to cross the faster train in seconds is:
A. 58 sec
B. 50 sec
C. 48 sec
D. 56 sec

## D Watch Video Solution

63. An inspector is 228 meter behind the theif .

The inspector runs 42 meters and the thief
runs 30 meters in a minute. In what time the inspector catch the thief ?
A. 19 minutes
B. 20 minutes
C. 18 minutes
D. 21 minutes

Answer: A

## D Watch Video Solution

64. Ashok can row upstream at 8 kmph and
downstream 12 kmph . What is the speed of
the stream?
A. $6 \mathrm{~km} / \mathrm{hr}$
B. $3 \mathrm{~km} / \mathrm{hr}$
C. $2 \mathrm{~km} / \mathrm{hr}$
D. $4 \mathrm{~km} / \mathrm{hr}$

Answer: C

## D View Text Solution

65. Ashwin has to travel from one point to
another point in a certain time. Travelling at a
speed of 6 kmph he reaches 40 m late and travelling at a speed of 8 kmph he reaches 12 m earlier. What is the distance between this two points?
A. 27 km
B. 18 km
C. 5 km
D. 21 km

## Answer: D

## D View Text Solution

66. Two trains $A$ and $B$ start from two places $P$
and $Q$ towards $Q$ and $P$ respectively. After passing each other they take 4 hours 48 minutes and 3 hours and 20 minutes to reach
$Q$ and $P$ respectively. If the train from $P$ is moving at $45 \mathrm{~km} / \mathrm{h}$ then find the speed of other train .

A. $69 \mathrm{~km} / \mathrm{h}$

B. $74 \mathrm{~km} / \mathrm{h}$
C. $54 \mathrm{~km} / \mathrm{h}$
D. $64 \mathrm{~km} / \mathrm{h}$

Answer: C

D View Text Solution
67. Two cities $A$ and $B$ are at a distance of 60 km from each other. Two persons $P$ and $Q$ start from First city at a speed of $10 \mathrm{~km} / \mathrm{hr}$ and
$5 \mathrm{~km} / \mathrm{hr}$ respectively. P reached the second city $B$ and returns back and meets $Q$ at $Y$. Find the distance between $A$ and $Y$.
A. 30 km
B. 40 km
C. 50 km
D. 55 km

Answer: B

## - Watch Video Solution

68. Total distance between $A$ and $B$ is $d$ kms. If
the distance travelled along the stream is
three time of the total distance and the distance travelled against the stream is two
times of the total distance. If the time taken
to cover the distance along the stream is $10 \%$
less then the time taken to cover the distance against the stream if a person cover a
distance of 21 km in 1 hr 24 min along the stream, then find the rate of current?
A. $2 \mathrm{~km} / \mathrm{hr}$
B. $3 \mathrm{~km} / \mathrm{hr}$
C. $1 \mathrm{~km} / \mathrm{hr}$
D. $4 \mathrm{~km} / \mathrm{hr}$

Answer: B
( Watch Video Solution
69. Calculate the difference in the original time
taken as given above in condition to meet train $A$ and $B$ and the time taken by $\operatorname{train} B$ to
catch train A if the train A had started in same
direction as that of B. Train B had started in
same direction started 2 hrs after train A while going in same direction .
A. 45 hrs 40 min .
B. 24 hrs 20 min .
C. 55 hrs .30 min .

## D. 49 hrs .45 min .

## Answer: D

## D View Text Solution

70. What is the ratio of relative speed of both
the trains while travelling towards the same direction and while travelling towards the same direction and while travelling towards opposite direction?
A. 10: 1
B. $9: 2$
C. 1:10
D. 10:3

## Answer: C

## D View Text Solution

71. A boat can travel 9.6 km downstream in 36 min . If speed of the water current is $10 \%$ of the speed of the boat in downstream. How
much time will boat take to travel 38.4 km upstream.
A. 2 hours
B. 3 hours
C. 1.25 hours
D. 1.5 hours

Answer: B

D Watch Video Solution
72. Train A completely crosses train B which is

305 m long in 24 second. If they are travelling
in opposite direction and sum of speed of both are $25 \mathrm{~m} / \mathrm{s}$., then find the difference (in meter) between lengths of both trains .
A. 5
B. 6
C. 8
D. 10

## - Watch Video Solution

73. A train is 216 m long . It crosses a platform in 19 seconds with speed $21 \mathrm{~m} / \mathrm{s}$. If some 21 m long coaches are added in train and it crosses same platform, then it takes 26 seconds to cross the platform at same speed. How many coaches were added to the train?
A. 7
B. 10
C. 12
D. 5

## Answer: A

## D Watch Video Solution

74. A man can row at $5 \mathrm{~km} / \mathrm{hr}$ in still water. If
the river is running at $1 \mathrm{~km} / \mathrm{hr}$ it takes him 75
minutes to row to a place and back How far is
the place?
A. 2.5 km
B. 3 km
C. 4 km
D. 5 km

Answer: B

D Watch Video Solution
75. Sum of the length of two trains $P$ and $Q$ is
330. The ratio of the speeds of $P$ and $Q$ is $5: 8$.

Ratio between time to cross an electric pole by

P and Q is $4: 3$. Find the difference in the length of two trains .
A. 50
B. 30
C. 40
D. 75

Answer: B
( Watch Video Solution
76. A boat covers 18 km downstream in 3 hours
. If speed of current is $33 \frac{1}{3} \%$ of its downstream speed. In what time will it cover a distance of 50 km upstream ?
A. 50 hour
B. 40 hour
C. 30 hour
D. 25 hour

## Answer: D

77. Two trains, 100 km apart, travel towards each other on the same track. One train travels at $40 \mathrm{~km} / \mathrm{hr}$, the other travels at 60 $\mathrm{km} / \mathrm{hr}$. A bird starts flying at a speed of 90 $\mathrm{km} / \mathrm{hr}$, at the same location of the faster train
. When it reaches the slower train , it turns
around and flies in the opposite direction at
the same speed. when it reaches the faster
train, again it turns around and so on. When
the two trains collide , how far has the bird flown?
A. 90 km
B. 45 km
C. 180 km
D. 135 km

Answer: A

D View Text Solution
78. The length of the two trains are 60 m and 90 m . They are running at the speed of 58 $\mathrm{km} / \mathrm{hr}$ and $50 \mathrm{~km} / \mathrm{hr}$ respectively on parallel
tracks in opposite direction. In how many seconds will they pass each other .?
A. 10
B. 8
C. 5
D. 3

Answer: C
( Watch Video Solution

# 79. The upstream speed of a boat is $9 \mathrm{~km} / \mathrm{hr}$ 

 which is $300 \%$ more than the speed of stream. Find how much distance boat will cover in 5 hours while travelling in downstream .
A. 66 km
B. 65.5 km
C. 67.5 km
D. 68 km

## Answer: C

80. A train having speed of $36 \mathrm{~km} / \mathrm{hr}$ crossing a
pole in 15 sec and a platform in 42 sec . Find
the length of platform?
A. 250 m
B. 270 m
C. 330 m
D. 310 m

Answer: B
81. If the sum of upstream and downstream speed is $24 \mathrm{~km} / \mathrm{hr}$ and the speed of the current is $2 \mathrm{~km} / \mathrm{hr}$. Then find the time taken to cover 35 km in downward ?
A. 2 hr
B. 2.5 hr
C. 3 hr
D. 3.5 hr

Answer: B

## D Watch Video Solution

82. The difference between downstream speed
and upstream speed of boat is $8 \mathrm{~km} / \mathrm{hr}$ and
boat travels 90 km from A to B (downstream)
in 6 hours. Then find the speed of boat in still
water?
A. $11 \mathrm{~km} / \mathrm{hr}$
B. $18 \mathrm{~km} / \mathrm{hr}$

## C. $20 \mathrm{~km} / \mathrm{hr}$

D. $16 \mathrm{~km} / \mathrm{hr}$

## Answer: A

## D Watch Video Solution

83. A train of some length passes the platform of length 400 m in 45 seconds. Find the
length of train if the speed of train is $66 \mathrm{~km} / \mathrm{hr}$
A. 476 m
B. None of these
C. 428 m
D. 410 m

## Answer: D

## D Watch Video Solution

84. The speed of a boat in still water is 12 kmph. If the boat covers 36 km upstream in 4 hours, what is the speed of stream?
A. $3 \mathrm{~km} / \mathrm{hr}$
B. $4 \mathrm{~km} / \mathrm{hr}$
C. $5 \mathrm{~km} / \mathrm{hr}$
D. $2 \mathrm{~km} / \mathrm{hr}$

Answer: A

D Watch Video Solution
85. Two friends $P$ and $Q$ are running in opposite direction from $A$ to $B$ and another from $B$ to $A$. Speed of $P$ is $8 / 5$ of speed of $Q$.

After meeting each other, if $P$ takes 3.5 hours
to reach $B$ then what will be the time taken by

Q to reach A after meeting ?
A. 8.96 hours
B. 9 hours
C. 9.20 hours
D. 10 hours

Answer: A

D View Text Solution
86. A man can swim at 8 kmph in still water. He covers an equal distance of 18 km both in upstream and downstream between two points in 6 hours. Find the speed of stream .
A. $5 \mathrm{~km} / \mathrm{h}$
B. $6 \mathrm{~km} / \mathrm{h}$
C. $7 \mathrm{~km} / \mathrm{h}$
D. $4 \mathrm{~km} / \mathrm{h}$

Answer: D

D Watch Video Solution
87. Train A of length 240 m can cross a platform of length 480 m in 36 second. The ratio of speed of Train A and Train B is 4:5.

Then find the length of Train B if Train B can cross a pole in 24 seconds .

A. 560 m

B. 600 m
C. 640 m
D. 700 m

Answer: B

## - Watch Video Solution

88. Uday can cover $X$ distance with $Y$ speed in $Z$
time . He can cover same distance with $Y+10=$ speed in (Z-2) time. He can cover same distance $X$ with $Y-15$ speed in $(Z+6)$ time . What can be found from the given data .
(i) time to cover 200 km with speed $\mathrm{Y}+10$
(ii) distance covered in $(Z+6)$ time $(Y+10)$
speed
(iii) speed by which a tunnel can be crossed in
$\frac{Z}{2}$ hour
(iv) Ratio between time to cover distance $X$ with speed $Y$ to time to cover distance ( $X-5$ )
with speed $(Y+10)$
A. Only (ii)
B. Only (ii) and (iii)
C. Only (i) and (iii)
D. Only (i) , (ii) and (iv)

Answer: D
89. Two express trains EMU and DMU cross
each other in 15 seconds when they move towards each other. Speed of train EMU and train $D M U$ is $80 \mathrm{~km} / \mathrm{hr}$ and $64 \mathrm{~km} / \mathrm{hr}$ respectively. Length of train EMU is 150 metre more than length of train DMU.
$\rightarrow$ Which of the following can be obtained
from the above given information.
(i) Time taken by train DMU to cross a man moving in same direction as of train DMU.
(ii) Time taken by train EMU to cross a platform of half of its length.
(iii) Length of train EMU .
(iv) Speed of another train MEMU whose length is equal to average of length of train

EMU and DMU .
A. (i) and (iii)
B. (i) , (ii) and (iii)
C. (ii) and (iii)
D. All (i), (ii) , (iii) and (iv)

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90. A boat goes 30 km downstream and while returning covered only $80 \%$ of distance that covered in downstream . If boat takes 4 hr more to cover upstream than downstream
then find the speed of boat in still water $(\mathrm{km} / \mathrm{hr})$ if speed of stream is $\frac{25}{36} \mathrm{~m} / \mathrm{sec}$ ?
A. $8 \mathrm{~km} / \mathrm{hr}$
B. $2.8 \mathrm{~km} / \mathrm{hr}$
C. $5.6 \mathrm{~km} / \mathrm{hr}$

## D. $4.2 \mathrm{~km} / \mathrm{hr}$

## Answer: C

## D Watch Video Solution

91. Train A can cross a man in 8 sec and a 180 m long platform $P$ in 17 sec . If train $A$ cross
train $B$ which is running in opposite direction at speed of $108 \mathrm{~km} / \mathrm{hr}$ in 8 sec , then find time taken by train $B$ to cross platform $P$ ?
A. 16 sec
B. 11 sec
C. 12 sec
D. 14 sec

Answer: C

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