Speed & Distance - Online Quiz

Following quiz provides Multiple Choice Questions (MCQs) related to **Speed & Distance**. You will have to read all the given answers and click over the correct answer. If you are not sure about the answer then you can check the answer using **Show Answer** button. You can use **Next Quiz** button to check new set of questions in the quiz.

Q 1 - A man riding his bike covers 150 meters in 25 seconds. What is his rate in Km every hour?

A - 20km/hr

B - 21.6km/hr

C - 23km/hr

D - 25km/hr

Answer : B

Explanation

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Speed = 150/25 m/sec = (150/25* 18/5) km/hr = 108/5 km/hr = 21.6 km/hr
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Hide Answer

Q 2 - The proportion between the paces of two trains is 7:8. On the off chance that the second prepare keeps running in 5 hours 400 km, the pace of the first prepare is :

A - 70 km/hr

B - 200 km/hr

C - 250 km/hr

D - 350 km/hr

Answer : A

Explanation

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Let the speed of first train be 7x km/hr.
Then the speed of the second train is 8x km/hr.
But speed of the second train=400/5km/hr=80 km/hr
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∴8x=80⇒x=10.
Hence the speed of first train is (7*10) km/hr=70 km/hr.

Hide Answer

Q 3 - A auto going with 5/7 of its typical rate covers 42 km in 1 hr. 40 min. 48sec.What is the typical pace of the auto?

A - 125/7 km/hr

B - 25 km/hr

C - 30 km/hr

D - 35 km/hr

Answer : D

Explanation

Let the usual speed be x km/hr.
42/(5x/7)= 126/75 ⇒ 42*7/5x = 42/25 ⇒5x = (25*7) ⇒x = (5*7) = 35

Show Answer

Q 4 - R and S begin strolling towards one another at 10 am at pace of 3 km/hr and 4 km/hr individually. They were at first 17.5 km separated. At what time do they meet?

A - 11.30 am

B - 12.30 pm

C - 1.30 pm

D - 2.30 pm

Answer : B

Explanation

```
Suppose they meet after x hours. then,
3x+4x = 17.5 ⇒ 7x = 17.5 ⇒x = 2.5 hours
So they meet at 12.30 pm
```

Hide Answer

Q 5 - A star is $8.1 * 10^3$km far from the earth. Assume light goes at the pace of $3.0 * 10^5$ km for every second. To what extent will it take light from star to achieve the earth?

A - $7.5 * 10^3$ hrs

B - $7.5 * 10^4$ hrs

C - $2.7 * 10^b$ sec

D - $2.7 * 10^i$ sec

Answer : B

Explanation

```
(3*10⁵) km is covered in 1 sec.
(8.1 * 10^i3) km is covered in (1/3 *10⁵* 8.1*10^i3) sec = (2.7 *10⁸*1/60*1/60) hrs = (2.7*10⁶)/36 hrs= (2.7 *10
```

Hide Answer

Q 6 - A man strolling at 3 km/hr crosses a square field corner to corner in 2 minutes. The zone of the field is:

A - 25 ares

B - 30 ares

C - 50 ares

D - 60 ares

Answer : C

Explanation

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Speed =(3*5/18)m/sec. = 5/6 m/sec
Distance covered in 2 min. = (5/6* 2* 60) m = 100 m
Length of the diagonal of the square field = 100 m
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Area = 1/2 * (diagonal) ^{2}= (1/2 *100 *100)m^2= 5000 m^2
= 5000/100 ares = 50 ares {1 are= 100 m^2}

Show Answer

Q 7 - A man ventures 35 km halfway at 4 km/hr and at 5 km/hr. in the event that he covers previous separation at 5 km/hr and later separation at 4 km/hr, he could cover 2 km more in the same time. The time taken to cover the entire separation at unique rate is:

A - 9 hours

B - 7 hours

C - 8 hours

D - 13/2 hours

Answer : C

Explanation

Suppose the man covers first distance in x hrs and the second distance in y hrs. then,
4x+5 y = 35 ... (a) And 5x+4 y = 37 ...(b)
On solving (a) and (b), we get x= 5, y = 3
Total time taken = (5+3) = 8 hrs.

Show Answer

Q 8 - If a train keeps running at 40 km/hr, it achieves its destination late by 11 minutes. In any case, in the event that it keeps running at 50 km/hr, it is late by 5 minute just. The right time for the train to cover its trip, is:

A - 13 min

B - 15 min

C - 19 min

D - 21 min

Answer : C

Explanation

```
Let the required time be x minutes.
Distance covered in (x+11) min at 40 km/hr
Distance covered in (x+5) min at 50km/hr
∴(x+11)/60*(x+5)/60*50⇒4(x+11) =5(x+5) ⇒x= (44-25) =19.
Hence, the required time is 19 minutes.
```

Show Answer

Q 9 - A man on visit ventures initial 160 km at 64 km/hr and the following 160 km at 80 km/hr. The normal rate for the entire excursion is:

A - 35.55 km/hr

B - 71.11 km/hr

C - 36 km/hr

D - 72 km/hr

Answer : B

Explanation

```
Average speed = 2xy/(x+y) km/hr = (2*64*80)/ (64+80) km/hr
=   (2*64*80)/144 km/hr = 640/9 km/hr = 71.11 km/hr
```

Show Answer

Q 10 - A certain separation is secured by cyclist at a sure speed. On the off chance that a jogger covers a large portion of the separation in twofold the time, the proportion of the rate of the jogger to that of the cyclist is:

A - 1:2

B - 2:1

C - 1:4

D - 4:1

Answer : C

Explanation

Let distance = d meters and time taken by cyclist = t sec.
Speed of the cyclist = d/t m/sec.
Again, distance = d/2 meters, time taken by jogger = 2t sec.
Speed of the jogger = (d/2)/2t m/sec. = d/4t m/sec.
Ratio of speeds of jogger and cyclist = d/4t: d/t = 1/4:1 = 1:4

Show Answer