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| Straigth road | |
| LEQ: Cax maxing on straint | |
| alled o half | |
| | |
| HANDUÇMU | |
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| | |
| Unitor m= when an sheet moving along | |
| | Total time |
| Man :- | Avrage speed = Total distance covered |
| The second second | |
| Unitorm and Jon- Unitorm | Speed = distance per unit time |
| | D& |
| | |
| pain) Sheed | DE SPEED - DISTRUCE |
| Is in the course of the state of the | O B C roughie |
| (in Stantone out speed) in Kmja a Straigh | given motion |
| second the speed as a given miles | |
| eedometre, o | (beed: |
| | |
| SPEEDOMETRE: | CHEB (Motion and time) |
| Date | |
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| Ö | DA = 7 * * = |
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| Non-Uniform = when a object ii) moving along a straight path ocone unegral distance in equal | |
| intervals of time or livdeed not more along a straight path, its motion 1 is called a non-uniform motion | = A simple pendulum is made up of a metal ball (bob) attached to a taut light string, or thread that is fixed rigidly at an end |
| cheory traffic | |
| Example 1: Suppose, on an educational trip, you have travelled a total distance of 440 km, and | |
| your trip took & hours. Your (average) speed | |
| $Sd_h = \frac{440 \text{km}}{8 \text{h}} = 55 \text{km/h} .$ | |
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| | Exemple) Suppose on an educational torb you |
| G180ph:- | have travelled a total distance |
| 0/84911 | of 440 km and your trip took |
| | 8 hours, your overage speed |
| = Groth is the spe Bictorial | was |
| = Great is the sepre Bictorial sepresentation of concept or idea | |
| | 440 Km - 55 Km/h |
| * Uses of graph | 440 Km = 55 Km/h |
| | |
| 5 Graph very often used in Science | Example 2) The adometic ago can reed 12000 km |
| mathematics and other fields of study | at the start of this and 12400 |
| help us in having Such a Pictorial and | km at the end of the trip. If the trip |
| alive' sepasentation | took 8 hours, find the average speed |
| | of the can- |
| I they enable us to communicate | |
| information in an interesting and | Distance Covered by the can = 12400 km-1200 |
| visual manner | = 400 |
| | Torren Time then - Shown |
| * Types of gentles | |
| | Average Speed - Distance covered by the car |
| 1 Bon graph | Time take |
| 2) Die chat | |
| 2) Pie chart 3) Linear or Straight line gealth | |
| The state of the s | = 400 Km - 50 Km/h |
| | 8 how |
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Example = 8 The shotabdi Express takes SOMETHING TO KNOW 6 hours to travel from New Delhi to Luckness at an A Fill in the blanks:average that speed of 80 km/n . Find the distance) An object is said to be at restigit does not change its position with time. from New Delhi to Luknow. we have 2) The S.I unit of time is a second distance = Speed X time 3) A. child sitting in a revolving giant wheel is an example of a circular = 80 Km X6 = 480 Km Ans 4) A cay moving an a busy straight road, is an example of non-uniform Example 4 = The distance from dehi to abouting in motionchordiganh is 250 Km. A bus travel at an average speed of 50 km/h. Mois much 5) The speedometer of a meterbike measures, it asked in km/n time would it take to travel from deli to charling time taken = distance covered - 250 Km SO Km/n = 5h Ary Page No. Page No.

| | Date// |
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| B) Write true or folse | 6) The distance-time graph, for a can kept parked on a side road, is a |
| The speed of a fast moving town is usually measured in metre | straight line parallel to the time |
| ber hour speed semains combined | C Tick the correct aption |
| por an object having a uniform motion True | i) Out of the following, the only covered famula |
| 3) A mon walks for minute, at a straight | = distance = speed x time |
| track. The total distance covered by him is Im False | 2) A mon walks on a straight road from his home to a market 3km away with a speed of 6km/n. The time, taken by the mon |
| 4) An object moving along g | to go from his home to market regials. |
| straight line, 15 said to be in | = 30 min |
| segularly increasing distance in equal intervals of time True | Time taken = speed = 3km |
| | 6 Kulh |
| complete 20 oscillation, eguals 2-1 second True | = 30 h |
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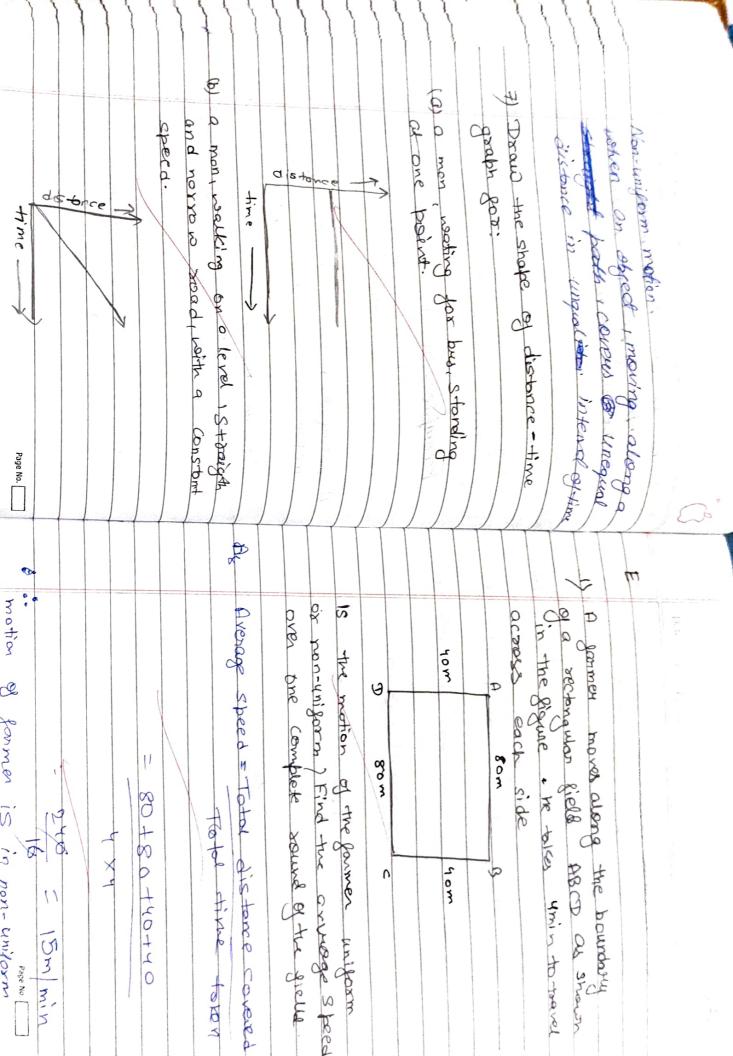
| . C | |
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| 3) The odometre of a car, reads 57321.0 km when the clock shows the time as 8:30 a.m. The odometre reading change to 57336.0 km at time 8:50 am. The distance, moved by the Car, in there 20 min, equals = 15km The graph that represents a truckat we rest is the graph labelled- = 15km The graph that represents a truckat The graph labelled- The graph labelled- The graph labelled- The graph labelled- The graph labelled- | 5) In the given diagram of a simple fendulam, the time taken by the box to move from X to Z is 't,' and from Z to 0 is 't,' The time period of the simple pendulam is- 14(t, t t, 2) 6) The S.I. unit of Speed is - |
| time -> | = m/second |
| 11.00 | |
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| | Date to |
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| Answer the following in brief. Q1) A boy walk to his being school with a constant speed of 4km/n and a constant speed of 4km/n and seaches there in 20 minute. Find the | speed of the ses |
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| distance of the school from his nouse. | And Distance = 216 Km Time taken = 4h |
| Ans Sheed = 4Km/h Time = 30 min = 30 = 1 h | Average speed = Total distance Total time |
| Speed = distance | - 2/6 Km Y h |
| Distance = Sheed x time | = 54 Km/4 |
| | |
| $= 4 \times 1 - 2 \text{ km}$ | |
| | |
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3) Two car A and B (starting, at the same time, from the some point) are moving noith average speeds of 40 km/h and 50 km/h, respectively, in the same direction. Find how for will can B be from Con A after 3 hows. Cay A = YOKMIN CONB = SOKONJK Con B= 6 Can A: -/ Speed=YOKMIN Speed = SORMIN Time = 3h time = 3 3h Distance = SXT. Distance = SX+ = 50x3 = 40x3 = 150 Km = 120 Km Distonce between can A and B =(150 - 120)km = 30 Km

Coop B is 30 1<m more than Can & A Page No.

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| | ST KM |
| can main an a straight sond | 11/104 |
| Orca ble: | to to dis tence controvoled |
| | 000 |
| distance in equal | |
| when on object moving stone. | 15 Km |
| Uniform motion | |
| | 0.00 |
| motion. Give one example of each | 1 00 × 10 |
| 6) Distinguish between uniform and non-uniform | - |
| | |
| canta | |
| (2) motion of the moon wisdom | 2 10 Km |
| Example: (1) motion of the bands of a court | |
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| periodic protion | |
| Je Harry Jan Wallet | A Tistage of car in 15 min |
| and the second of the Scotled | |
| the malin which who are itself after a | may be a second of the second |
| 1 | the can in these so minuses |
| | distance core |
| can be used to meo since time. | of 60 km/h for the ment 15 min |
| a | la 15 min and then |
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| | | BANK AND THE STREET |
| | | A. C. |
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| | m 0,000 | |
| ment promon the fact motion | = 340 × 6 | |
| | Qio inco | Mark Market |
| position when the body of the facilities | : Sheed y time | And Long |
| | | A A |
| oscillate. Then the personion is a | Time = 6 second (Diven) | * And |
| The bob of the penalworn is it | apero o | Brog Brok |
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| fixed sigidly at one that | thursdam's | |
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| of a ma | some the boint where the | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ |
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| | Seen by him is speed of | |
| | heard osecond after the lighthing | |
| (3) (3) MOLO CON LOSE | the moderning sound of Che | Market Ma |
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| 2) value of R = 12 second | |
| | |
| Bos 1) values of $R = 3 \text{ m}$ | |
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| 5 Shreuse the graph shows in book | 0 |
| equal interval of time. | trem de l'oscillation is Deci |
| percount it comes unested dispance in | The state of the s |
| (b) The object B is in non-uniform mostoc | = 1/0 sec 2 sec |
| of time | |
| Bry (a) The Object of is in uniforce in equal interval | By Time period - time toke for the oscillation |
| | |
| 10 | to those these possess of their |
| 4) Constituted examine different objects it and is | B) A single pendular oscillation . Find the |
| The state of the s | they 10 seconds + |
| | |