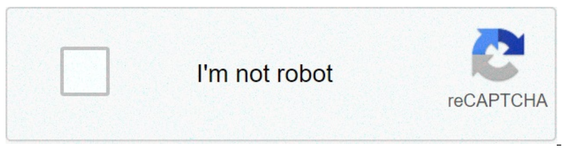

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Distance and displacement worksheets with answers

On this page we have moving worksheet for class 9 physics. I hope you like it and don't forget about pleasure, social part and comment at the end of the page. Question 1 A particle is moving a tilted plane. Its speed changes from 15 m/if to 10 m/s in two seconds. What's your acceleration? Answer u = 15 m / s, v = 10m / s, t = 2 sec, a =? $ a = \ frac {v-u} {t} = -2.5 m / s ^ 2 $ Question 2 The speed changes from 45m/s to 60m/s in three seconds. What's your acceleration? Answer u = 45 m / s, v = 60m / s, t = 3 sec, a =? $ a = \ frac {v-u} {t} = 5 m / s ^ 2 $ Question 3 A body covered a distance of z metre along a semicircular path. Calculate the size of the body's shift and the relationship between the distance from the displacement? Answer Let the range of semicircular path $ z = \ pi r $ r = \ frac {z} {\ pi}$ shift = diameter = 2r = $ \ frac {2z} {\ pi} $ hour shift distance ratio $ = \ frac {z} {\ frac {2z} {\ pi}} = \ frac {\ pi} {2} $ Question 4 A particle moving at an initial speed of 5m/s is subject to a uniform Acceleration of 2.5 m/s2. Find the move in the next 4 seconds.? Answer u = 5 m / s, a = 2,5 m / s2, t = 4 s, s =? $ s = ut + \ frac {1} {2} at ^ 2 $ s = 40 m Question 5 A train is traveling at a speed of 60 km / h. The brakes are applied in order to produce a uniform acceleration of the Â.5 m / s2. Find out how far the train will be before it is taken to rest. Answer u = 60 km / h = 16.66 m / s, a = -0,5 m / s2, v = 0, s =? $ v 2 = u 2 + 2AS $ s = 277.55m Question 6 A truck covers 30 km at a uniform speed of 30 km/h. What should be its speed for the next 90 km if the average speed for the whole trip is 60 km/h? Response Total travel distance = 30 +90 = 120 km Average speed = 60 km / h So total time taken = 120/60 = 2 hours now when traveling with 30 km / h for 30 km. Time taken = 1 hour in so time left = 2-1 = 1 hour. Then the truck must take 90 km in 1 hour to have an average speed of 60 km/h, so the speed should be = 90/1 = 90 km/h for the next 90 km Question 7 A stone is thrown vertically towards the high direction with a speed of 10 m / s. If the acceleration of the stone during its movement is 10 m / s2 in the downward direction, what will be the height reached by the stone and how long will it take to reach there? Answer u = 10 m / s, v = 0, a = -10 m / s2, s =? , t =? $ v ^ 2 = u ^ 2 + 2AS$ s = 5 m $ v = u + a $ o t = 1 sec Question 8 A person goes to the market, shops and returns to a constant slower speed. Do you draw time travel charts and speed of the person? Answer The moving time chart is indicated as below the speed time chart is provided as under the demand 9 John Run for 10 minutes. at a uniform speed 9/ h. At what speed should you run for the next 20 minutes. so that the average speed reaches 12 km / hour? Answer Total Time = 10 +20 = 30 min Average Speed = 12 km / hour and then Total Distance = 6 Km hour when traveling with 9 km / h for 10 minutes. Distance = 1.5 km so left = 6-1.5 = 4.5 km. So John has to take 4.5 km in 20 minutes to have an average speed of 12 km / hour, so the speed should be = (4.5/20) * 60 = = = km/h for the next 20 min Question 10 A parcel was at rest from 1 a.m. He moved at a uniform speed of 50km/h from 1.30 to 2:00 in the morning. Find the average speed between (a) 1.00 and 2.00 (b) 1.15 and 2.00 (c) 1.30 and 2.00. Answer Distance travelled between 1.30 and 2:00 a.m = 50 /2 = 25 km a.m. average speed between 1.00 and 2.00 a.m = Distance /time = 25/1=25 km/h b. speed average between 1.15 and 2.00 a.m = (25/45) *60 =33.22 km/h c. average speed between 1.30 and 2.00 a.m. = (25/30) *60 = 50km/h Question 11 An object moves along a circular path of 14cm diameter at constant speed. If it takes 2 min. to move from one point on the trail to the diametrically opposite point. Find (a) The distance covered by the object (b) The velocity (c) The displacement (d) average velocity. Answer Distance = $\pi r =\frac {22}{7} \times 7 = 22 cm$ Velocity = Distance/time = 22 /120 =.183 cm/sec Displacement = diameter = 14 cm Average velocity = displacement / time = 14/120 = .116 cm/sec Question 12 A particle with a velocity of 2m/s at t=0 moves along a straight line with an acceleration constant of 0.2m/s2. Can you find the displacement of the particle in 10? Do you answer this kind of m/s, a=0.2m/s2 ,t=10 s ,s=? Translation: A particle is pushed along a horizontal surface in such a way that it starts at a velocity of 12m/s. Its velocity decreases at a steady rate of 0.5m/s2. (a) Find the time it will take to rest. (b) Find the distance covered by it before coming to rest? Answer u=12 m/s ,a =-0.5m/s2 ,v=0 $v=u+ at$ t=24 sec $s = ut + \frac {1}{2}at2$ s=432 m Question 14 An accelerated train from 20km/h to 80km/h in 4 minutes. How far away is it these days? Suppose the tracks are straight? Answer $v=u+at$ $a = \frac { (80 – 20) \times 60 }{ 4} = 900 km/h$ Now $v^2 = u^2 + 2 a s$ s = 3.33 km Question 15 A cyclist who moves on a circular track of 50m radius completes a revolution in 4 minutes. What is its (a) average speed (b) average speed in a complete revolution? Answer Distance = $2 \pi r = 100 \time 3.14 $ Average speed = distance /time = 1,309 m/sec Displacement = Average speed =0 link to this page by copying the following text Worksheet on Movement for Class 9 Physics Read also Class 9 Maths Class 9 Science In order to continue to enjoy our site, please confirm your your identity as a human being. Thank you so much for your cooperation. If you are viewing this message, it means that we are having trouble uploading external resources on our website. If you are behind a web filter, make sure the domains *.kastatic.org and *.kasandbox.org are unlocked. unlocked.

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