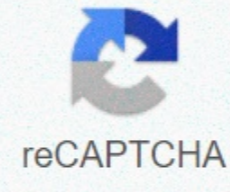




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## Physics class 9 motion numericals

Formula used Question 1 The train accelerates acceleration from 36 km/h to 54 km/h in 10 seconds. Answer a. Acceleration is provided by  $(a = \frac{\Delta v}{\Delta t})$   $\Delta v = 54 - 36 = 18 \text{ km/hr} = \frac{18 \times 1000}{3600} \text{ m/s} = 5 \text{ m/s}$  So  $a = 5 \text{ m/s}^2$  b. The distance is given with  $(S = ut + \frac{1}{2}at^2)$  Now  $u = 36 \text{ km/hr} = 10 \text{ m/s}$   $s = 10 \times 10 + \frac{1}{2} \times 5 \times 10^2 = 125 \text{ m}$  2. question Body text whose speed is constant (a) Accelerate (b) Can accelerate (c) is constant speed (d) can not be accelerated. The answer could be accelerated Question 3 Trucks driving at 54 km/h is slowed to 36 km/h in 10 sec. Find retardation Answer Here  $u = 54 \text{ km/h} = 15 \text{ m/s}$ ,  $v = 36 \text{ km/h} = 10 \text{ m/s}$  Acceleration is given  $(a = \frac{\Delta v}{\Delta t})$   $(\Delta v = 10 - 15) = -5 \text{ m/s}^2$  Negative sign means delay Issue 4 Particle moving circle diameter 20 m. What is its distance and as given below s.no Rounds Displacement distance 1 1 2 1.5 3 2 4 2.5 Answer After each round, particles come to their starting position. So the displacement in full rounds will be zero s.no rounded displacement distance 1 1 0  $(20\pi)$  2 1.5 20  $(30\pi)$  3 2 0  $(40\pi)$  4 2.5 20  $(50\pi)$  Question 5 Scooter traveling 10 m/s speed up to 20 m/s 4 sec. Find the acceleration of the scooter. Answer Acceleration is given  $(a = \frac{\Delta v}{\Delta t})$   $a = \frac{20 - 10}{4} = 2.5 \text{ m/s}^2$  Question 6 Train starts from rest and accelerate smoothly at a speed of 5 m/s<sup>2</sup> 5 sec. Calculate the speed of the train in 5 sec. Now  $v = u + at$   $v = 0 + 5 \times 5 = 25 \text{ m/s}$  Question 7 Object moves with single positive acceleration. Its speed and timing will be (a) a straight line parallel to the time axis (b) a straight line bent at the angle of the obtuse to the time axis (c) A straight line bent at an acute angle to the time axis, (d) None of them are. Answer Answer is (c) Question 8 Maximum train speed is 90 km/h. It takes 10 hours to cover a distance of 500 km. Find the ratio between its average speed and maximum speed? Answer  $\text{Average speed} = \frac{\text{total distance}}{\text{time}} = \frac{500}{10} = 50 \text{ km/h}$  Average speed ratio to maximum speed = 50:90=5:9 Question 9 Auto starts from rest and gets speed of 54 km/h in 2 seconds. Find (i) acceleration (ii) the distance travelled by car to accept the motion of the car is uniform? Answer  $u = 0$ ,  $v = 54 \text{ km/h} = 15 \text{ m/s}$ ,  $t = 2 \text{ sec}$  a) Acceleration is provided by  $(a = \frac{\Delta v}{\Delta t})$   $a = \frac{15 - 0}{2} = 7.5 \text{ m/s}^2$  b) Distance is given with  $(S = ut + \frac{1}{2}at^2)$   $s = 0 \times 2 + \frac{1}{2} \times 7.5 \times 2^2 = 15 \text{ m}$  Question 10 Object fell from the rock decreases with constant acceleration of 10 m/s<sup>2</sup>. Find its speed of 5 s after it was dropped.  $v = u + at$   $(v = 0)$   $(v = 10 \times 5 = 50 \text{ m/s})$  Question 11 ball is thrown up and it goes to a height of 100 m and comes down 1) What is net displacement? 2) What is the net distance? Answer As it comes down to the original point Net displacement is zero Net distance = 200 m Question 12 Two cars A and B race each other. Car A lasted 2 minutes at a speed of 7.5 km/h, slept for 56 minutes and again lasted 2 minutes at a speed of 7.5 km/h. to find the average speed of car A race. Answer We know that  $\text{Distance} = \text{speed} \times \text{time}$  Distance traveled in first 2 minute =  $7.5 \times 2 = 15 \text{ km}$  Distance travelled last 2 minute =  $7.5 \times 2 = 15 \text{ km}$  Total distance =  $15 + 15 = 30 \text{ km}$  Total time =  $2 + 56 + 2 = 60 \text{ min} = 1 \text{ hour}$  Average speed =  $\frac{30}{1} = 30 \text{ km/h}$  13. question Anand leaves his house at 8.30 A.M his school. The school is 2 km away, and classes start at 9.00 A.M. If he goes at a speed of 3 km/h for the first kilometer, at what speed he should walk the second kilometer to reach just in time? Answer  $\text{Speed} = \frac{\text{distance}}{\text{time}}$  or  $\text{Time} = \frac{\text{distance}}{\text{speed}}$  Travel 1 km by 3 km/h, Time required =  $\frac{1}{3} \text{ h} = 20 \text{ min}$  Now he must reach school in 30 min, So he is on another 1 km =  $30 - 20 = 10 \text{ min} = \frac{1}{6} \text{ h}$  So the speed would be =  $\frac{\text{distance}}{\text{time}} = \frac{1}{1/6} = 6 \text{ km/h}$  Question 14 Object moves along a straight line with acceleration 2 m/s<sup>2</sup>. If its initial speed is 10 m/s, what will its speed be 2 s later? Answer  $u = 10 \text{ m/s}$ ,  $t = 2 \text{ s}$ ,  $a = 2 \text{ m/s}^2$   $v = u + at$   $v = 10 + 2 \times 2 = 14 \text{ m/s}$  Question 15 Bullet hits sandbox at a speed of 20 m/s and penetrates it up to a distance of 6 cm. Find a slowdown of the bullet in the sand. Answer  $3333.3 \text{ m/s}^2$  Question 16 Particle A experiences constant acceleration 20 seconds after starting from rest. If it travels the distance D1 in the first 10 seconds and the distance D2 in the next 10 seconds, then a) D2 = D1 (b) D2 = 2D1 (c) D2 = 3D1 d) D2 = 4D1 Answer c) Question 17 SUV speed -timeline is given below. The mass of the SUV is 1000 kg. A. What is the distance travelled by an SUV in the first 2 seconds? B. What is the braking force at the end of 5 seconds for the SUV to stop for one second? Answer a. Distance traveled with SUV in the first 2 seconds =  $\text{area} \Delta ABE = \frac{1}{2} \times 2 \times 15 = 15 \text{ m}$  b. Acceleration will be given with slope line CD  $a = \frac{15 - 0}{2} = 7.5 \text{ m/s}^2$  Now mass SUV = 1000 kg braking force will be  $F = ma = 1000 \times 7.5 = 7500 \text{ N}$  Question 18 Electron moving at a speed of  $5 \times 10^6 \text{ m/s}$  into a single electric field and gets a single acceleration of  $10^{13} \text{ m/s}^2$  in the direction of the initial speed. i. Find out the time at which the electron speed will be doubled.? ii. How much distance would electrons cover this time.? Answer,  $u = 5 \times 10^6 \text{ m/s}$ ,  $a = 10^{13} \text{ m/s}^2$ ,  $v = 2u = 10^7 \text{ m/s}$  Using  $v = u + at$   $10^7 = 5 \times 10^6 + 10^{13}t$   $t = \frac{5 \times 10^6}{10^{13}} = 5 \times 10^{-7} \text{ s}$  Question 19 Train 100 m long moving at a speed of 72 km/h. Find the time it takes to cross a bridge that is 2 km long? Answer, taking into account train length = 100m, speed = 72 km/h = 20 m/s, Bridge length = 2 Km. Total distance to which the train fully crosses the bridge = 2000 + 100 = 2100 m So, the time required  $\text{Time} = \frac{\text{distance}}{\text{speed}}$   $= \frac{2100}{72} = 29.17 \text{ s}$  Question 20 Artificial satellite moving in circular orbit with a radius of 42,250 km (ap.). Calculate its linear speed when it takes 24 hours to deccerate around the ground.? Answer Based on  $r = 42,250 \text{ km}$ ,  $T = 24 \text{ hour}$  linear speed in circular motion is assigned with  $v = \frac{2\pi r}{T}$   $= \frac{2 \times 3.14 \times 42,250}{24} = 11.05 \text{ km/h}$  Question 21 Speed timeline shows cyclist movement. Find (i) its acceleration (ii) its speed (iii) distance, to which the cyclist 15 seconds Answer (i) We can see from the graph that the speed does not change So, the acceleration is equal to zero. ii) reading the graph, speed = 20 m/s (iii) Distance covered in 15 seconds.  $s = ut = 20 \times 15 = 300 \text{ m}$  Matter 22 Object, starting from the rest traveling 20 m in the first 2 s and 160 m in the next 4 s. What will speed after 7 s from the beginning. Answer here  $u = 0$ ,  $s = 20 \text{ m}$ ,  $t = 2 \text{ sec}$   $(S = ut + \frac{1}{2}at^2)$   $20 = 0 + \frac{1}{2} \times a \times 2^2$   $a = 10 \text{ m/s}^2$  Now Speed at the end of 2 sec  $v = u + at$   $v = 0 + 10 \times 2 = 20 \text{ m/s}$  Now Check motion next 4 sec, let assume the acceleration is  $a_1$  as we are confident in the movement of the second part here  $u = 20 \text{ m/s}$ ,  $s = 160 \text{ m}$ ,  $t = 4 \text{ sec}$   $(S = ut + \frac{1}{2}at^2)$   $160 = 20 \times 4 + \frac{1}{2} \times a_1 \times 4^2$   $a_1 = 10 \text{ m/s}^2$  So the acceleration is constant in both motion. Now we can easily calculate the speed as  $u = 0$ ,  $t = 7 \text{ sec}$ ,  $a = 10 \text{ m/s}^2$   $v = u + at = 0 + 10 \times 7 = 70 \text{ m/s}$  Matter 23 Object travels 20 m 2 s and then another 16 m 2 s. What is the average speed of an object? Answer Total distance traveled with object = 20 m + 16 m = 36 m Total time taken = 4 s + 2 s = 6 s  $\text{Average Speed} = \frac{\text{total distance travelled}}{\text{total time}}$   $= \frac{36}{6} = 6 \text{ m/s}$  24. Question The distance moved and the amount of displacement equal? a) The earth moves around the Sun (b) The object moves in a circular path c) The pendulum moves on and from fro (d) The object moves only on a straight path in response point (d). Distance and in all other cases question 25 Vehicle stopping distance : When the brakes are applied to a vehicle which is moving, the distance it travels before stopping is summoned Distance. This is an important factor in road safety and depends on the initial speed ( $v_0$ ) and braking ability, or deceleration, caused by braking. The car is driven at a speed of 72km/h suddenly applied to the brakes with a deceleration of 5m/s<sup>2</sup>. Find stopping distance from car Reply Here  $u = 72 \text{ km/h} = 20 \text{ m/s}$ ,  $v = 0$ ,  $a = -5 \text{ m/s}^2$  Now using relationship  $v^2 = u^2 + 2as$   $0 = 20^2 + 2 \times (-5) \times s$   $s = 40 \text{ m}$  Download Numeric Motion Problems and Solution worksheet as pdf link to this page by copying the text Numerical Questions and answers on Motion for 9 physics Also Read Class 9 Maths Class 9 Science These are some extra physics problems for class 9 from the chapter motion. Practice these physics numerical issues to further clear your concepts. How to solve the physics numeric? To resolve the numeric, first carefully read the question and write down all the specified data. You also need to write down related information. Now try to apply the physics formula below. Note- Take care of u (Initia Velocity) and v (Final Velocity). Physics all Numerical formula Usednews Equation Motions  $v = u + at$   $s = ut + \frac{1}{2} \times t^2$   $v^2 = u^2 + 2as$  Distance traveled  $n$ - second physics numerical question1. Scooter traveling 10 m/s speed up to 20 m/s 4 sec. Find the acceleration of the scooter.2. The object that fell off the cliff falls with a constant acceleration of 10 m/s<sup>2</sup>. Find your speed of 5 s after it was dropped.3. The ball is thrown up and it goes to a height of 100 m and comes down) What is net displacement?b) What is the net distance?4. The car starts from the rest and gets a speed of 54 km/h in 2 sec. Finda) Acceleration) Distance travelled by car (accept the motion of the car is uniform)? 5. The bullet hits the Sandbox at a speed of 20 m/s and penetrates it up to a distance of 6 cm. Locate the distance D1 in the deceleration of the sandbox.6. The object moves along a straight line at an acceleration of 2 m/s<sup>2</sup>. If its initial speed is 10 m/s, what will its speed be 2 s later? Read more:- Zoology Objective Questions and Answers7. The particle experiences constant acceleration 20 seconds after the start of the rest. If it travels the distance D1 in the first 10 seconds and the distance D2 within the next 10 seconds (a) D2 = D1 (b) D2 = 2D1 (c) D2 = 3D1 (d) D2 = 4D18. The artificial satellite moves in a circular orbit with a radius of 42,250 km (ap. Calculate your linear speed when it takes 24 hours to move around the ground?9. Two cars A and B race each other. Car A lasted 2 minutes at a speed of 7.5 km/h, slept for 56 minutes and again lasted 2 minutes at a speed of 7.5 km/h. to find the average speed of the car A race.10. 10. The SUV's speed and timeline are given below. SUV mass is 1500 kg.a) What is the distance travelled by the SUV first 2 seconds?b) What is the braking force at the end of 5 seconds for the SUV to stop within one second?11. Car ride 30 km with a uniform speed of 40 km/h and the next 30 km single speed of 20 km/h. Find its average speed?12. A housing starts from rest with acceleration a1. After two seconds, another body B starts from rest with the acceleration of a2. If they travel at the same distance in the 5th second after the start of A, find the ratio a1:a2.13. A particulate matter moving in a straight line shall cover half of the distance at a speed of 3 m/s. The second half of the distance is included in two equal and two time intervals at a rate of 4.5 m/s and 7.5 m/s respectively. What is the average speed of particles?14. A train starting from the train station and moving at a single acceleration reaches a speed of 40 km/h in 10 minutes. Find its acceleration.15. Show that 1 radian = 57.3 degreesRead more:- CBSE NCERT Solutions & Revision NotesFor Solution Go to page 2 Page 2 1. Initial speed (u) = 10m/sFinal speed (v) = 20 m/sTime (t) = 4s  $v = u + at$   $20 = 10 + a \times 4$   $a = 2.5 \text{ m/s}^2$ . Apply,  $v = u + at$   $v = 0 + a \times t$   $v = 10 \times 5 = 50 \text{ m/s}$ 3.a) What is the net displacement = 0 mb) What is the net distance = 100 + 100 = 200 m4. Initial speed =  $u = 0 \text{ m/s}$ Final speed =  $v = 54 \text{ km/h} = 15 \text{ m/s}$ Time =  $t = 2 \text{ sec}$ Equation of motion:  $v = u + at$   $15 = 0 + a \times 2$   $a = 7.5 \text{ m/s}^2$  = distance travelled In eqm:  $s = ut + \frac{1}{2}at^2 = 0 + \frac{1}{2} \times 7.5 \times 2^2 = 15 \text{ m}$ 5. Dist = 6cm = 0.06 mv = 20 m/su=0 m/sv² = u²+2asHere u = 0x×Th <0>a×a0.06a= -3333.m/s2Other method: Use ΔKE concept = Work Done6.V=u+atHere u=10m/s, a=2m/s², t = 2 secv=10+2×2 =10+4 =14m/s7. We know that D = ut + 1/2at²inc velocity u=0 msecAparticle starts from restD1=1/2a²D1=1/2a1²D1 = 50a \_\_\_\_\_ (1)Now the initial D2 speed is the last D1.d1.1.last speed D1=initial speed D2=vso, v =u +at v =u +at v=atv=10a (because here u=0 and t=10)Now D2 = ut+1/2a(²)D2 = (10a)10 + 1/2a 10²D2 = 100a+50aD2 = 150a \_\_\_\_\_ (2)NowD1/D2 = 50a/150aD2 = 3D18. The circular orbit radius of which the satellite moves = 42250 km. Time by satellite to complete one revolution around the earth = 24 h. Distance = 2πrTime = 24 hWe know distance = speed × timeStooth and get speed =  $\frac{2\pi \times 42250}{24} = 11065.47 \text{ km/h}$ 9. Distance = × time1 = 7.5×2/60d1 = 0.25 kmd2 = 7.5×2/60d2 = 0.25 kmKop distance = d1+d2 = 0.5 km Total time = 2+2+56 = 60 min = 1 hVerage speed = 0.5/1 = 0.5 km/h10. (a) Triangular ABE(b) F = mawhere, a = [final speed (at D)] - initial speed (at C)] / time (FD) = (0-15)/1 = - 15 m/s²11. Average speed = Resolve and get average speed = 26.6 km/h12. A distance travelled in second 5 second 13th. Average speed =  $\frac{s}{(t1 + t2)}$   $t1 = s/2$   $3t2 = s/4$   $s/s/2/2 = 4.5 \times t/2 + 7.5 \times t/2/5 = 12t/5 = t/2 = s/12$  Ema scout values, and solveAverage = 4 m/s.14.Here we have the initial speed, u = 0,Final speed, v = 40km/h = 11.1 mTime (t) = 10 minute = 60×10 = 600 sMaxerwork (a) = 11.1/600 = 0.0185 m/s215.π radian = 180So, 1 radian = 180/π = 57.3 degrees

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