Reading free Conceptual physics concept development answers (2023)

lopment 5 2 practice pagetossed balla ball tossed upward has initial velocity components 0 m s vertical and 5 m s horizontal the posi tion of th ball is shown at 1 second intervals air resi tance is negligible and g 10 m s2 fill in the boxes writing in the values of velocity components ascending and your calcu concept development 9 1 practice page name class date pearson education inc or its affi liate s all rights reserved work and energy 1 how much work energy is needed to lift an object that weighs 200 n to a height of 4 m 2 how much power is needed to lift the 200 n object to a height of 4 m in 4 s 3 concept development 8 1 practice page momentum 1 a moving car has momentum if it moves twice as fast its momentum is as much 2 two cars one twice as heavy as the other move down a hill at the same speed compared to the lighter car the momentum of the heavier car is as much 3 the recoil momentum of a cannon that kicks is eration ct is10 m s2 non accelerated motion1 the sketch shows a ball rolling at c nstant velocity along a level fl oor the ball rolls from the fi rst pos tion shown to the second in 1 second the two positions are 1 meter apart sketch the ball at successive 1 second intervals all the wa concept development practice page 10 1 chapter 10 cu ar motion 53centripetal force1 a rock tied to a post moves in a circle at constant spee on a frictionless horizontal surface all the forces acting on the rock are shown tension t support force n by the ta le and the force due to gravity w a the ve circle the correct answers 1 the velocity of the airplane at any instant is along the radius of tangent to its circular path 2 if l were somehow replaced with l x and l y the airplane would would not behave the same as being supported by l 3 since the airplane doesn t accelerate vertically component l y must be circle the correct answers 1 an astronaut in outer space away from gravitational or frictional forces throws a rock the rock will gradually slow to a stop continue moving in a straight line at constant speed the rock s tendency to do this is called inertia weight acceleration 2 the sketch shows a top view of a rock being date en practice page9 1work and energy1 how much work energy is needed to lift an object ei hs 200 n to a height of 4 m 800 j2 how much power is needed to lift the 2 je t to a height of 4 m in 4 s 200 w3 what is the power output of an engi t oes 60 000 j of work in 10 s 6 kw4 concept development practice page 29 3 r 9refl ection and refraction 1313 the sketch shows that due to refraction the man sees the fi sh closer to th water surface than it actually is a draw a ray beginning at the fi sh s eye to show the line of sight of the fi sh when it looks upward at 5 reinforce your understanding of this distinction circle the correct answers below comparing the concepts of mass and weight one is basic fundamental depending only on the internal makeup of an object and the number and kind of atoms that compose it the concept that is fundamental is mass weight defend your answer 6 which car has the greater work done on it by the applied force defend your answer in terms of the distance traveled 7 which car has the greater kinetic energy at the edge of the cliff does your answer follow from your explanation of 6 does it contradict your answer to 4 why or why not 8 circle the correct answers 1 an astronaut in outer space away from gravitational or frictional forces throws a rock the rock will gradually slow to a stop continue moving in a straight line at constant speed the rock s tendency to do this is called inertia weight acceleration 2 the sketch shows a top view of a rock being tice page25 1vibrations and waves1 a sine curve that repre ents a transverse wave is drawn below with a ruler measure th w velength and tu e of the wa av length 7 cmb amplitude 1 5 cm2 a kid on a playground swing makes a co plete to and fro swing ea circle the correct answers 1 an astronaut in outer space away from gravitational or frictional forces throws a rock the rock will gradually slow to a stop continue moving in a straight line at constant speed the rock s tendency to do this is called inertia weight acceleration 2 the sketch shows a top view of a rock being earth the answer is 2 p m why because the

time it takes earth to receive 10 fl ashes at 12 minute intervals is 10 12 min 120 min 2 hours suppose the spaceship turns around suddenly in a negligibly short time and returns at the same high speed during the hour of return it emits another ten fl ashes at 6 minute intervals concept development 34 2 practice page 4 if part of an electric circuit dissipates energy at 6 w when it draws a current of 3 a what voltage is impressed across it 5 the equation power energy converted time rearranged gives energy converted 6 explain the difference between a kilowatt and a kilowatt hour 7 concept development 26 1 practice page sound 1 two major classes of waves are longitudinal and transverse sound waves are longitudinal transverse 2 the frequency of a sound signal refers to how frequently the vibrations occur a high frequency sound is heard at a high pitch wavelength speed 3 circle the correct answers 6 the results show voltage is stepped up down from primary to secondary and that current is correspondingly stepped up down 7 for a step up transformer there are more fewer turns in the secondary coil than the primary a concept statement is a document that summarizes a business idea to convince a reader of its viability these statements typically describe the idea s components target audience and benefits in one to three paragraphs depending on how much information you include concept development 6 3 practice page racing day with a f m in each situation below cart a has a mass of 1 kg circle the correct answers a b or same for both 1 cart a is pulled with a force of 1 n cart b also has a mass of 1 kg and is pulled with a force of 2 n which undergoes the greater acceleration a b same for both 2

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