



MCAT[®]

1001 Questions: PHYSICS

Q If a particle leaves position 1 and moves along path C at a constant speed of 1 m/s, how long will it take to reach position 2? A 5 kg block at rest experiences a net force of 10 N. What is the magnitude of its acceleration? A 10 kg mass hangs from a spring that follows Hooke's Law. If the spring has a constant of 200 N/m, how far does the spring displace from its rest position? A research drops a 100 g beaker from a height of 0.5 meters. What is its velocity upon impact? A patient punches a wall, injuring her hand. She hits the wall at a velocity of 35 m/s and her hand has a mass of 1,730 g. What is the initial kinetic energy? During a cardiovascular stress test, a patient runs a mile in 15 minutes. If his mass is 70 kg, how much work did his muscles perform? (1 mile = 1.6 km)

The kidneys are responsible for keeping blood pressure within a narrow range. Which of the following is NOT true with regards to blood or fluid pressure? Inflammation of the lungs may result in fluid collection within the lung. Which of the following factors has the least effect on the pressure that fluid exerts on the lungs? A student aims to determine factors influencing reuptake of water at the proximal tubule. Which of the following units would most accurately describe flow rate? An increase in which of the following properties of the gas by itself will decrease the speed of a sound wave through

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Mike Jess



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