

Forces - Set II



Name Class A student does 60 joules of work pushing A 40-kilogram mass is moving across a horizontal surface at 5.0 meters per second. a 3.0-kilogram box up the full length of a ramp that is 5.0 meters long. What is the What is the magnitude of the net force magnitude of the force applied to the required to bring the mass to a stop work? 8.0 second A 20.N 1.0 N B 15 N 5.0 N 25 N 40 N A boat weighing 9.0 x 10² newtons requires A high school physics student is sitting in a 3 a horizontal force of 6.0 x 102 newtons to seat reading this question. The magnitude of move it across the water at 1.5 x 101 the force with which the seat is pushing up meters per second. The boat's engine on the student to support him is closest to 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 stroller by the man, the magnitude of the What was the magnitude of the impulse that the student exerted on the ball? force exerted on the man by the stroller is A 8.0 N · s B 78 N 3 smaller, but greater than zero C 4.0 × 102 Nos larger **D** the same $1.0 \times 10^{3} \text{ M}$ In the diagram below, a 10 Sand is often placed on artic 9 is at rest on a plane inclined at 15° because the sa A decreases the coefficient of friction As the angle of the incline is 10. kg between the tires of a car and the road increased to 30°, the mass B increases the coefficient of friction of the block will between the tires of a car and the road A decrease C decreases the gravitational force on a car D increases the normal force of a car on **B** increase the road c remain the same



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