

Forces - Set I



Name Class Date A projectile is fired from a gun near the Which is a vector quantity? surface of Earth. The initial velocity of the projectile has a vertical component of 98 A distance meters per second and a horizontal **s**peed component of 49 meters per second. C power How long will it take the projectile to reach D force the highest point in its path? In the diagram below, a box is at rest on an A net force of 25 newtons is applied 3 inclined plane. horizontally to a 10-kilogram block resting on a table. What is the magnitude of the Which vector best represents the direction celeration of the block? of the normal force 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 magnitude of the gravitational force approximately between the two spheres is approximately **A** 1×10^{-1} kg \triangle 1.11 × 10⁻¹⁰ N $\times 10^{\circ} \text{ kg}$ B 3.34 × 10-10 $1 \times 10^1 \text{ kg}$ $1 \times 10^2 \text{ kg}$ 5.00 × 10 9 N In raising an object vertically at a constant speed of 2.0 meters per second, 10 watts n which situation is th 9 object equal to zero? of power is developed. The weight of the A a satellite moving at constant speed object is around Earth in a circular orbit A 5.0 N B an automobile braking to a stop **B** 20 N a bicycle moving at constant speed C 40 N on a straight, level road **D** 50 N D a pitched baseball being hit by a bat



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