Calculating momentum worksheet

I created this worksheet to practice basic momentum calculations. There are some silly questions, including zombies, but I also did some real-life calculations involving very large and very small objects. Target audience: Junior high school and up. I also use this with my physics students as an intro calculation before proceeding to momentum conservation. Make sure this preview is suitable for your students. The entire product is displayed. To save money, buy my big Physical Science Unit 2 worksheet bundle Click here to see all my HS-level physical resources, click here to see my Physical Science (IPC) level resources: solve the problem, including the 2 students' page, and let the students see all the work in full! Equations in both normal and triangle formats. Answer Key If you have a question, bcsfamily@gmail.comClip Art Credit: Ninja Women Clip Art Studio Details: This is a license for single classroom use. Copyright 2019 Laura Delzer aka Delzer Dynamite Design.See preview for more information. This product is subject to federal law. Thanks for respecting my hard work! Some of the worksheets for this concept are momentum work, physical work momentum impulse work and energy answers, impulse movement work pg 1, momentum word problems, momentum maintenance, exercise problems, momentum impulses and momentum changes, physics work solutions. Did you find the worksheet you're looking for?To download/print, click the pop-out icon or click the print icon on the worksheet to print or download it. The worksheet opens in a new window. You can download or print it using the document reader option in your browser. Momentum is the total product of an object's mass and its velocity. In other words, momentum measures the force caused by an object's mass and velocity. The equation for calculating momentum is clear that = momentum = mass X speed or P = M (P = momentum), V = speed and M = mass are not the same momentum of cars and bicycles traveling at 20 m / s based on the above definition. The car will have greater momentum due to its large mass. Note: For si units of velocity = mass = kg, the si units of momentum = kg x m/s and momentum must always have a direction, so the final answer should reflect the direction of momentum or velocity. Question example A formula for finding the momentum of a 12.05kg round stone rolling down a hill at 1.8m/s - P= kg x m/s = 12.05kg x 8m/s = 96.4 kg x m/s The final answer to the downhill has the appropriate SI units (kg x m/s) and also mentions its direction.Movement. The 2.35kg cannon ball is taken from the cannon towards the east in 220mls and calculates the momentum of the cannon ball. Equation – P= kg x m/s = 35kg x 220m/s = 7700 kg x m/s East Momentum questions are generally displayed in general scientific and/or basic physics. Tests with momentum questions: ASVAB — DET — GED — HESI — NLN PAX — Thiess 1.3 cars travel on even-numbered roads at speeds of 110m/s, all traveling at the same speed If so, are you calculating the car with the highest momentum, but the weight of the first car is 2500kg, the weight of the second car is 2650kg, and the weight of the third car is 2009kg? A. First car b.2 car c.3 car d. All have the same momentum 2.4.6m/s.a. 3320 kg x m/s downhill b. 3320 kg x m/s c. 3320 downhill d. 3320 M 3. An object weighing 3320 M 3.500g is rolling along the road at 3.5m/s, but what is the momentum of the object?road b. 124.9 km x m/s along 17. Along the road 50 kg x m/s. along the road 1750 kg x m/s road d. 1.75 kg x m/s along road 4. Javelin is thrown into the field at 18 m/s, and if the javelin weighs 1.5 kg, what is the momentum? Enter 12 kg x m/s and put field d. 2.7 kg x m/s in field 5 in field d. 2.7 kg x m/s. Which of these objects has greater momentum, is the 2kg track moving east at 3.5m/s or the 4.3kg track moving south at 1.5m/s? A. First track at 7 km x m/s moving east b. Second track at 7.45 km xm/s by South c. First track at 6.45 km xm/s by East d. Second track at 7 km xm/s by South 6. The bullet, which weighs 350g, is shot towards the target at a speed of 250m/s. bullet towards the goal a. Calculate 1.4 kg x m/s of momentum toward the target. B Momentum is the product of velocity and mass. If they are all traveling at the same speed, the heaviest cars will have the highest momentum. 2. 4.6 x 700 = 3220 lower hill 3.D First convert 500g to kg = 500/1000 = 0.5kg, momentum = 10 0.5 x 3.5 = 1.75 kg x m/s.4.C p = 1.5 x 18 = 27 kg x m/s along the road. 5. A momentum of the first object = 2 x 3.5 = 7; momentum of the second track = 4.3 x 1.5 = 6.45. The first track has more momentum at 7 km x m/s moving east. 6.B First convert 350 g to kg = 350/1000 = 0.35 kg. Bullet momentum = 0.35 x 250 = towards the target 87.5 kg x m/s. In fact, the momentum of the security price is really what the mathematical cit-picker calls the rate of change. Compare today's price with the price x period. The higher the number, the faster the speed, and the momentum is all about speed. Calculate momentum using momentum indicators used by most technical traders and the speed change method provided by the software package: calculate today's closing price before a certain number of days. For example, you can look back at 5.Multiplies that number by 100. M = (price 5 days ago) x100 M = (15/10) x 100 = 150 The result is information presented as a ratio (100) rather than a simple difference between the two prices. If today's price is equal to the price of 5 days ago, the center line reads 100, meaning that the new price is equal to 100% of the price 5 days ago. Imagine that the price is rising at the same pace every day, for example $1, you are using a 5-day indicator, on the 6th day, using the change rate split method, today's price was $16 and the price 5 days ago was $11, so the calculation looks like M = (16/11) x 100 = 145.45 momentum is going down. The subtraction method, which calculates an example of a momentum section, displays a flat line at the zero level. The rate of change method drops from 150 to 145, indicating that the momentum is changing at a constant rate ($1 per day) but not accelerating. Momentum indicators can only move up and down if the price is accelerating or decelerate, if the relative pace of change is the same, the momentum indicator can have a flat line while the price is still moving. The same.

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