

Skills Worksheet Math Momentum Answers

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Ch 12 Math Skills: Momentum Solve each of the practice problems. SHOW YOUR WORK AND CIRCLE YOUR ANSWERS. HALF CREDIT WILL BE TAKEN OFF FOR ANSWERS WITHOUT UNITS. 1. A pitcher in a professional baseball game throws a fastball, giving the baseball a momentum of 5.83 kg•m/s. Given that the baseball has a mass of 0.145 kg, what is its speed? $p = m v$

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momentum, $p = 8.22 \times 10^3 \text{ kg} \cdot \text{m/s}$ Unknown: speed, $v = ? \text{ m/s}$ Rearrange the momentum equation to solve for speed. momentum = mass X speed $p = m v$ Insert the known values into the equation, and solve. $\text{kg} \cdot \text{m/s} \text{ kg } v = 16.4 \text{ m/s}$ Step 1: Step 2: Step 3: List the given and unknown values. Given: speed, $v = 9.7 \text{ m/s}$ momentum, $p = 1.07 \times 10^4 \text{ kg} \cdot \text{m/s}$

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~~KMBT 654 20140507093507 Steinbach Science~~

Answer Key: Newton's 2nd Law and Momentum Math Skills NEWTON'S SECOND LAW 1. 2. 3. 4. 5. 6. 7. 8. a. $F_{\text{unbalanced}} = F_{\text{applied}} - F_{\text{friction}} = 2.8 \text{ N} - 2.6 \text{ N} = 0.2 \text{ N}$ b. $F = ma$ $(1,250 \text{ kg})(16.5 \text{ m/s}^2) = 2.06 \times 10^4 \text{ N}$ 10. $F = ma = (5.22 \times 10^7 \text{ kg})(-0.357 \text{ m/s}^2) = -1.86 \times 10^7 \text{ N}$ 11. $F = ma = (1.3 \times 10^4 \text{ kg})(-27.6 \text{ m/s}^2) = -3.6 \times 10^5 \text{ N}$ 12.

~~NEWTON'S SECOND LAW~~

If a horse with this mass is galloping with a momentum of $8.22 \times 10^3 \text{ kg} \cdot \text{m/s}$, what is its speed? SOLUTION Step 1: List the given and unknown values. Given: mass, $m = 5.00 \times 10^2 \text{ kg}$ momentum, $p = 8.22 \times 10^3 \text{ kg} \cdot \text{m/s}$ Unknown: Step 2: Rearrange the momentum equation to solve for speed. Error!

~~momentum.doc Name Class Date Skills Worksheet Math ...~~

of about 9.7 m/s . If the momentum of a swimming walrus is $1.07 \times 10^4 \text{ kg} \cdot \text{m/s}$, what is its mass? SOLUTION Step 1: List the given and unknown values. Given: speed, $v = 9.7 \text{ m/s}$ momentum, $p = 1.07 \times 10^4 \text{ kg} \cdot \text{m/s}$ Unknown: mass, $m = ? \text{ kg}$ Step 2: Rearrange the momentum equation to solve for mass.

~~Skills Worksheet Math Skills Steinbach Science~~

momentum = mass (speed $p = mv$ Math Skills . continued. Step 4: Insert the known values into the equation, and solve. $p = (9.25 \times 10^5 \text{ kg})(61 \text{ m/s}) p = 5.6 \times 10^7 \text{ kg} \cdot \text{m/s}$. Practice. 7. The 300-series Shinkansen trains consist of 16 aluminum cars with a combined mass of $7.10 \times 10^5 \text{ kg}$.

~~01 Weebly~~

The formula for calculating momentum is = Momentum = mass X velocity. Or. $P = MV$. Where P = momentum, V = velocity and M = mass. Based on the above definition, it is clear that the momentum of a car and a bicycle both travelling at 20 m/s will not be the same, because although the velocity of the two objects are the same, their mass is different.

~~Momentum Practice Problems Includes answer key and tutorial~~

14 Math Skills Momentum Answers Skills Worksheet Math Skills Momentum Class Date Name Math Skills cont ued 2. e maxi speed measured for ago II is 273 m/s ass of 47 g had a momentum of $5.83 \text{ kg} \cdot \text{m/s}$, the baseball in the previous problem, what would its Date a golf ball with a as that of the ?

~~14 Math Skills Momentum Answers Orris~~

$m_1 v_1 = m_2 v_2$. $(12,000)(2) = (22,000)v_2$ $m_2 = \text{mass of both cars } 12,000 + 10,000$. $24,000 = 22,000 v_2$. $24,000/22,000 = v_2$. $v_2 = 1.1 \text{ m/s}$. 8. A $9,300 \text{ kg}$. railroad car traveling at a velocity of 15 m/s ...

~~Momentum Practice Problems Answers Mr. Ballard's HS Science~~

Skills Worksheet Math Momentum Answers Rearrange the momentum equation to solve for speed. momentum = mass X speed $p = mv$ Insert the known values into the equation, and solve. $\text{kg} \cdot \text{m/s} \text{ kg } v = 16.4 \text{ m/s}$ Step 1: Step 2: Step 3: List the given and unknown values. Skills Worksheet Math Momentum Answers Answer Key: Newton's 2nd Law and Momentum 5. 6.

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Step 1: List the given and unknown values. Given: Unknown: Step 2: Perform any necessary conversions. To find the speed in m/s, the value for speed must be multiplied by the number of meters in a kilometer and divided by the number of seconds in an hour. Step 3: Write the equation for momentum.

~~Math Skills~~

of the two has more momentum? a. The golf ball has more momentum because it has less mass. b. The bowling ball has more momentum because it has more mass. c. They have the same momentum because they have the same velocity. d. There is not enough information to determine the answer. Short Answer 11. Give an example of an object that is in free fall.

~~Skills Worksheet Chapter Review - Hortonville, WI~~

Skills Worksheet Math Momentum Answers Rearrange the momentum equation to solve for speed. momentum = mass X speed $p = mv$ Insert the known values into the equation, and solve. $kg \cdot m/s$ $kg \cdot v = 16.4 \text{ nJs}$ Step

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$p = 1500 \text{ kg} \times 28 \text{ m/s}$. $p = 42,000 \text{ kg m/s}$. The unit for momentum is: $kg \cdot m/s$ (kilogram meter per second), or. $N \cdot s$ (Newton second) They are the same! $1 \text{ kg m/s} = 1 \text{ N s}$. We will use both here. More examples: Mass.

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