

ANSWERS - AP Physics Multiple Choice Practice – Momentum and Impulse

Solution	Answer
1. Based on $Ft = m\Delta v$, doubling the mass would require twice the time for same momentum change	D
2. Two step problem. I) find velocity after collision with arrow. $m_a v_{ai} = (m_a + m_b) v_f$ $v_f = mv / (m+M)$ II) now use energy conservation. $K_i = U_{spring}$ $\frac{1}{2} (m+M) v_f^2 = \frac{1}{2} k \Delta x^2$, sub in v_f from I	E
3. Use $J=\Delta p$ $Ft=\Delta p$ $(100)t=200$ $t=2$	D
4. Definition. Impulse, just like momentum, needs a direction and is a vector	C
5. Since $p=mv$, by doubling v you also double p	D
6. Since the momentum is the same, that means the quantity $m_1 v_1 = m_2 v_2$. This means that the mass and velocity change proportionally to each other so if you double m_1 you would have to double m_2 or v_2 on the other side as well to maintain the same momentum. Now we consider the energy formula $KE=\frac{1}{2} mv^2$ since the v is squared, it is the more important term to increase in order to make more energy. So if you double the mass of 1, then double the velocity of 2, you have the same momentum but the velocity of 2 when squared will make a greater energy, hence we want more velocity in object 2 to have more energy.	C
7. Due to momentum conservation, the total before is zero therefore the total after must also be zero	E
8. Definition. $J_{net} = \Delta p$	B
9. Perfect inelastic collision. $m_1 v_{1i} + m_2 v_{2i} = m_{tot}(v_f) \dots (75)(6) + (100)(-8) = (175) v_f$	A
10. Perfect inelastic collision. $m_1 v_{1i} = m_{tot}(v_f) \dots (30)(4) = (40) v_f$	A
11. Perfect inelastic collision. $m_1 v_{1i} = m_{tot}(v_f) \dots (5000)(4) = (13000) v_f$	C
12. Energy is conserved during fall and since the collision is elastic, energy is also conserved during the collision and always has the same total value throughout.	E
13. To conserve momentum, the change in momentum of each mass must be the same so each must receive the same impulse. Since the spring is in contact with each mass for the same expansion time, the applied force must be the same to produce the same impulse.	C
14. Momentum is equivalent to impulse which is Ft	A
15. Use $J=\Delta p$ $J = mv_f - mv_i$ $J = (0.5)(-4) - (0.5)(6)$	C
16. Perfect inelastic collision. $m_1 v_{1i} = m_{tot}(v_f) \dots (2m)(v) = (5m) v_f$	B
17. First of all, if the kinetic energies are the same, then when brought to rest, the non conservative work done on each would have to be the same based on work-energy principle. Also, since both have the same kinetic energies we have $\frac{1}{2} m_1 v_1^2 = \frac{1}{2} m_2 v_2^2 \dots$ since the velocity is squared an increase in mass would need a proportionally smaller decrease in velocity to keep the terms the same and thus make the quantity mv be higher for the larger mass. This can be seen through example: If mass m_1 was double mass m_2 its velocity would be $v / \sqrt{2}$ times in comparison to mass m_2 's velocity. So you get double the mass but less than half of the velocity which makes a larger mv term.	E

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