Speed Movie Questions

SPS8. Students will determine relationships among force, mass, and motion.

a. Calculate velocity and acceleration.
b. Apply Newton's three laws to everyday situations by explaining the following:
Inertia
Relationship between force, mass and acceleration
Equal and opposite forces
c. Relate falling objects to gravitational force
d. Explain the difference in mass and weight.
e. Calculate amounts of work and mechanical advantage using simple machines

- Equation for velocity = _____
- Equation for acceleration = _____
- Newton's 1st law = _____
- Newton's 2nd law = _____
- Newton's 3rd law = _____

1. What is the name and profession of the main character in the movie? _____
2. What was his mission at the beginning of the movie? _____

_____

3. What was the bomber's mission at the beginning of the movie? _____

_____

4. What did Jack do to get Harry released from the bomber? _____
5. How will the bomb on the bus get activated? What will make the bomb blow up? _____

_____

6. What would the bomber do if people were unloaded from the bus? _____
7. What happens after Jack explains the situation to the bus driver, 'Sam'? _____

_____

8. Harry finds out the bomber is a _____
9. What happens when they try to let a passenger off the bus? _____

_____

10. What does Annie have to do to get over the freeway? _____
11. What happens when Harry and the SWAT team go to the bombers house? _____

_____

12. What happens when Jack tries to defuse the bomb? Why is this a big problem? _____

_____

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13. What important device does Jack find? _____

14. How does Jack use this to his advantage? _____

_____

15. How do Jack and Annie escape the bus? _____

_____

16. How does Newton's laws apply to the bus? _____

_____

17. What does Howard do when he finds out he has been tricked? _____

_____

18. How is Howard killed? _____

19. How does Jack save Annie? _____

20. What is the relationship between force, mass, and motion in this movie?

LIVEWORKSHEETS