NAME:

- 1. Read the following problem
- 2. Highlight your "proof" for assigning variables
- 3. List the givens
- 4. Solve
- 5. Write your answer with the proper units

From her bedroom window a girl drops a water balloon to the ground, 3.30 m below. If the balloon is released from rest, how long is it in the air? - 3 pts -

- Displacement m, how far
- Initial velocity m/s, starting from rest, initially/beginning, how fast...
- Acceleration m/s²
- Time s, how long...

Givens	Work
Answer	

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A feather is dropped on the moon from a height of 1.40 meters. The acceleration of gravity on the moon is 1.67 m/s^2 . Determine the time for the feather to fall to the surface of the moon. - 3 pts -

- Displacement m, how far
- Initial velocity m/s, starting from rest, initially/beginning, how fast...
- Acceleration m/s²
- Time s, how long...

Givens	Work
Answer	

$x = v_{initial} t + \frac{1}{2} a t^2$

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The observation deck of tall skyscraper 370 m above the street. Ignoring air resistance, determine the time required for a penny to free fall from the deck to the street below. - 3 pts -

- Displacement m, how far
- Initial velocity m/s, starting from rest, initially/beginning, how fast...
- Acceleration m/s²
- Time s, how long...

Givens	Work
Answer	

$x = V_{initial} t + \frac{1}{2} a t^2$

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Juliet is dropping a rose down to Romeo from her balcony 5.6 meters from the ground. How long will it take for the rose to reach Romeo? - 3 pts -

- Displacement m, how far
- Initial velocity m/s, starting from rest, initially/beginning, how fast...
- Acceleration m/s²
- Time s, how long...

Givens	Work
Answer	

$x = v_{initial} t + \frac{1}{2} a t^2$

NAME:

- 1. Read the following problem
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The acceleration due to gravity on Jupiter is about 25 m/s². How long would it take for an object to fall a distance of 3.0 meters? - 3 pts -

- Displacement m, how far
- Initial velocity m/s, starting from rest, initially/beginning, how fast...
- Acceleration m/s²
- Time s, how long...

Givens	Work
Answer	