

Freefall Video Notes

If we drop a feather and a penny at the same time, which hits the ground first? _____

Why?

People in the video answered: _____

The Real Answer: _____

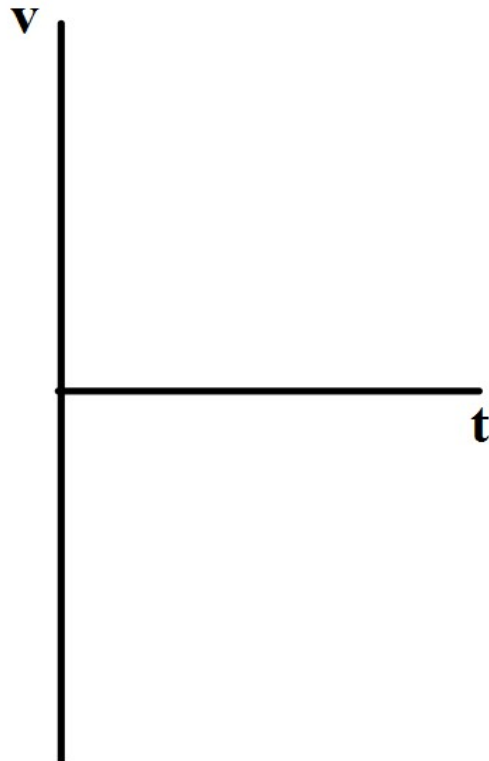
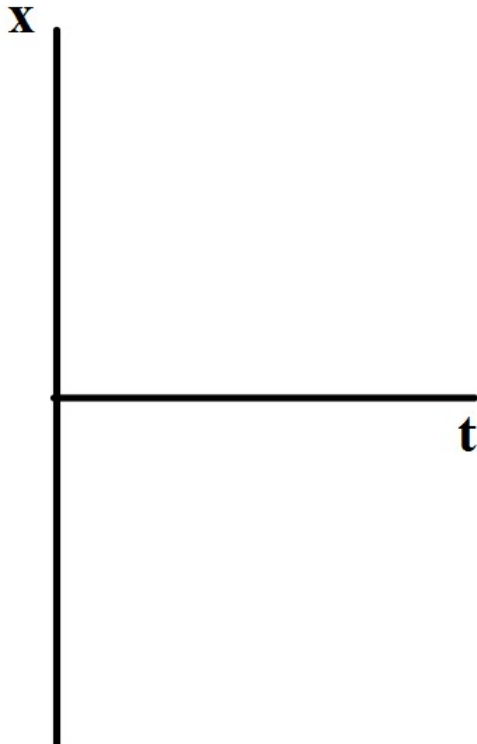
If you dropped a ping pong ball, and a bowling ball, off the empire state building _____

A “**terminal velocity**” is _____

Felix Baumgartner was able to break the world sky-diving records because _____

For 1D Motion, though, we will ignore the effect of air resistance.

What do YOU think a displacement-time and velocity-time graph would look like for a falling object with no air resistance? Draw them below:

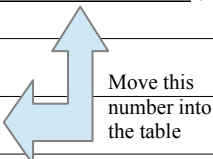


The Acceleration Due To Gravity on Earth is:

This means _____
_____.

When you drop a ball, or step out of a plane, your velocity for that first instant is _____,

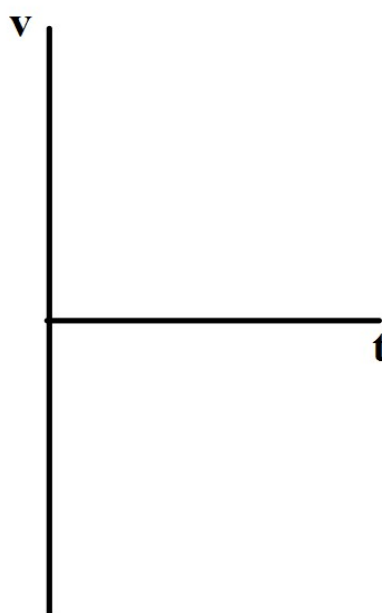
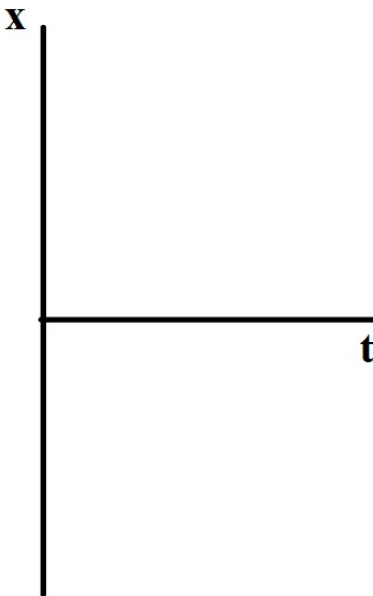
Time of Falling	Velocity
t = 0	v =
t = 1	v =
t = 2	v =
t = 3	v =



Acceleration Due To Gravity on the Moon is:

Acceleration Due To Gravity on Jupiter is:

Answer to Falling Object Graphs



Why are the above graphs NEGATIVE?

Notes from Veritasium video:

Notes from SciShow video (optional):

Notes from TedEd video (optional):

Why is the term Zero Gravity wrong?
