## **Kinematic Equations Review**

(!) This is a preview of the published version of the quiz

## Started: Oct 16 at 11:48am Quiz Instructions

Do not type in the units. Round your answer to one decimal place.

Question 1	1 pts
An object dropped from rest on planet earth (g=10 m/s/s) travels 50 meters. W speed of the object after falling those 50 meters?	hat is the





Question 4	1 pts
A ball is thrown straight down with an initial velocity of 13 m/s. Assume g = 10 m/s What is the speed of the ball after 10 seconds?	\$/S.
Question 5	1 pts

An astronaut on Planet Z drops a hammer initially at rest a distance of 300 meters. It takes the hammer 20 seconds to hit the ground. What is the acceleration magnitude on Planet Z?

Question 6	1 pts
An object with mass 400 kg is dropped on a Planet K which has no atmosphere a acceleration of gravity 6.5 m/s/s. What is the velocity of the object after 10 second dropped from rest after?	nd an ds if

## **Question 7**

1 pts

An object on Planet K with acceleration of 6.5 m/s/s and no atmosphere is dropped for 30 seconds. Assume initial velocity is zero. How far will the object travel in those 30 seconds?

Question 8	1 pts
An object has initial velocity 20 m/s and reaches a velocity of 40 m/s in a time of 6 seconds. What is the average velocity of the object?	

Question 9	1 pts
An object has initial velocity 20 m/s and reaches a velocity of 40 m/s in a time of 5 seconds. What is the average acceleration of the object?	

Question 10	1 pts
The shape of the v-t graph for a uniformly (aka constantly) accelerating object is a diagonal.	
True	
False	



The shape of the x-t graph for a uniformly (aka constantly) accelerating object is	a curve.
○ True	
False	

Question 12	1 pts
The shape of the distance-time graph for a uniformly (aka constantly) accelerating is a curve.	j object
True	
<ul> <li>False</li> </ul>	

Question 13	1 pts
Objects in free fall are not uniformly accelerating.	
True	
False	

Question 14	1 pts
An object in free fall on planet earth always experiences an acceleration downward m/s/s even if the object has a non-zero initial velocity upward.	d of 10
True	
False	

Question 15	1 pts
The slope of the velocity-time graph is the acceleration.	
○ True	
False	
Question 16	1 pts

An object uniformly accelerates from 15 m/s to 30 m/s in 3 seconds. What is the distance traveled by the object in those 3 seconds?

hint:

Start by finding the acceleration.

		Not saved	Submit Quiz
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